

2847



**Municipal Administration
and Water Supply (MA.IV)
Department, Secretariat,
Chennai – 600 009.**

Letter No. 18583/MA.IV/2018-142, Dated 05.09.2024

From
Dr. D. Karthikeyan, I.A.S.,
Principal Secretary to Government.

To
The Member Secretary,
Central Pollution Control Board,
Parivesh Bhawan,
East Arjun Nagar,
Delhi -110 032 (w.e)

Sir,

Sub: National Green Tribunal - Solid Waste Management Rules, 2016 - Orders of National Green Tribunal in O.A.No.606 of 2018 - Quarterly report for the quarter ended June 2024 and report on the thematic areas and prescribed format for Solid Waste Management and Sewage Management - Submitted - Regarding.

Ref: Orders of the National Green Tribunal dated 12.09.2019 and 07.01.2020 in OA.No.606/2018.

I am to invite attention to the references cited and to state that as per the orders of the Hon'ble National Green Tribunal, dated 12.09.2019 and 07.01.2020, the quarterly report for the Quarter ended June - 2024 on the 15 Thematic areas and information on Solid Waste Management and Sewage Management, in the prescribed format, to be filed by the Chief Secretary to Government on behalf of the State of Tamil Nadu, are enclosed herewith for filing before the Hon'ble National Green Tribunal, Principal Bench, New Delhi.

Yours faithfully,

for Principal Secretary to Government.

2849

**STATUS REPORT ON THE COMPLIANCE BY THE STATE OF TAMILNADU WITH THE DIRECTIONS OF THE HON'BLE
NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI**

IN

ORIGINAL APPLICATION NO. 606 / 2018

&

CONNECTED MATTERS

Submitted by

Chief Secretary, State of Tamil Nadu

June - 2024

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Introduction

Tamil Nadu is a fast growing and one of the most urbanised State in India. The link between economic development and urbanisation is well established. According to the 2011 Census, Tamil Nadu ranks third in the level of urbanisation (48.45%) in the country among the larger States. The urban population of Tamil Nadu is 34.95 million (Census of India, 2011) out of a total state population of 72.14 million and constitutes 48.45% of the population. While the percentage of urban population in the country increased from 10.85% to 31.16% during 1901-2011, Tamil Nadu registered a much higher percentage increase i.e., from 14.15% to 48.45% during the above period. Extended areas of Urban Agglomerations (UAs) in Tamil Nadu have also been witnessing rapid growth, with nearly 58% of the urban population living in the top 25 UAs.

In Tamil Nadu, Municipal Administration and Water Supply Department has the administrative control over Greater Chennai Corporation, Directorate of Municipal Administration and Directorate of Town Panchayats. The Commissioner of Greater Chennai Corporation administers the Greater Chennai Corporation with a population of 68,67,184. Based on the announcement made by the Hon'ble Minister for Municipal Administration, GoTN on the floor of the Legislative Assembly during the demand for grant of this department for the year 2021-2022, some of the Special Grade Municipality and the adjoining urbanised Local Bodies has been merged and upgraded as Corporations and some of the Town panchayats are upgraded as Municipalities. Now the Directorate of Municipal Administration manages 20 Corporations and 138 Municipalities with a population of 1,87,27,049. Similarly, 490 Town Panchayat with a Population of 76,55,586 are managed by the Directorate of Town Panchayats.

Compliance status of thematic areas as listed in the Hon'ble NGT order dated 12.09.2019 and 07.01.2020 in O.A.No.606 of 2018

Thematic Area: 1. Compliance of Solid Waste Management Rules, 2016 including Legacy Waste

SWM Rule 12	Duties of District Magistrate or District Collector or Deputy Commissioner to review performance of local bodies		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>The District Collectors are conducting regular meetings on action taken report with respect to Compliance of Solid Waste Management Rules 2016.</p> <p>The Chief Secretary to the Government of Tamil Nadu has also been conducting meetings through video conference on regular basis to review the action taken by District Collectors with respect to Compliance of Solid Waste Management Rules 2016.</p>	-	-	Complied

SWM Rules 15(a), (e), (ze), (f), (zf), (y), (z) & 16	Notification of Solid Waste Management Policy and Strategy Building Bye law enforcement Frame Bye Laws for Rules, user fee for waste generators, Levy of fines etc. Authorization of Pollution Control Board Duties of State Pollution Control Board or Committee		
Current Compliance Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> • State Policy on Solid Waste Management was notified on 24.08.18. • Provision made in section 35 (17) of Tamil Nadu Combined Development & Building Rules 2019. • All ULBs framed & notified the Bye law with provisions for imposition of user fee & spot fines. • TNPCB has issued authorization under SWM Rules 2016 to all 226 ULBs 	-	Nil	Complied

SWM Rules 15 (c), (d), (h), (i), (t), (v), (zd)	Inclusion of Organisation of Waste pickers and informal workers Facilitate SHG Formation, Provide ID Cards & Integrate in SWM Material Recovery Facilities to be established. Domestic hazardous wastes to be collected and disposed safely. Ensuring personal safety of waste handlers Self Help Group Activities		
Current Compliance status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> • Waste pickers have been integrated into the SWM system by engaging them through outsourcing agencies. • Day to day functioning of MCCs are mostly managed by SHGs. • ID cards issued and attendance maintained. • Dry waste is collected on a designated day of the week (every Wednesday) & transported to Resource Recovery Centres (RRCs/MRFs) • Workers are educated to collect the waste in a segregated manner. • Waste generators are encouraged to deposit the domestic Hazardous waste directly at MRFs or RRCs • Domestic hazardous waste such as Napkins, Diapers and Paramedical wastes collected separately on a daily basis and disposed separately. • Citizens are encouraged to hand over domestic hazardous waste such as Paint drums, Thermometers, expired medicines, Tube lights separately on a weekly basis. The waste is transported to the Domestic hazardous waste deposition centre/MRFs and periodically disposed to the facilitator authorized by TNPCB. 	Achieved	Nil	Complied

<ul style="list-style-type: none"> • Safety equipments and uniform are provided to sanitary workers. • Workers are encouraged to use protection equipments during their routine collection works and processing activities 			
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<p>SWM Rules 15</p> <p>(b), (v), (r),</p> <p>(m), (p), (q),</p> <p>(u)</p>	<p>Door to Door Collection & Segregation</p> <p>Preference to Construct, Operate & Maintain Solid Waste Processing Facilities</p> <p>Setting up of Bio Methanation Plants</p> <p>Onsite Composting Centre in Parks and gardens</p> <p>Transportation of non-biodegradable waste</p> <p>Material Recovery Facilities to be established</p>			
Current Status		Desirable Level	Gap	Proposal for attending gap
Door to Door collection – 15,234 TPD (98%) out of 15,545 TPD waste generation		15,545 TPD (100 %)	311 TPD (2%)	The Massive drive – “Peoples movement for clean cities” is being conducted in all the ULBs on every 2 nd and 4 th Saturday to make cities clean and to bring about behavioral change among the people. Through IEC awareness campaign, efforts are being made to ensure 100% D2D collection.
Source Segregation – 13,213 TPD (85%) out of 15,545 TPD waste generation		15,545 TPD 100 %	2,332 TPD (15 %)	

<p>Solid Waste Processing facilities.</p> <p>Total Waste Generation in 649 ULBs is 15,545 TPD</p> <p>Wet Waste</p> <ul style="list-style-type: none"> ✓ Total wet waste generation is 8,358 TPD (54%) ✓ Waste to Compost Processing facilities (Micro Compost Centres and windrows composting) are listed below: <table border="1" data-bbox="235 547 981 1054"> <thead> <tr> <th>Sl.No.</th> <th>Available wet waste processing facilities</th> <th>No. of functional plants</th> <th>Processing Capacity (TPD)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Micro Composting Centres</td> <td>1,051</td> <td>3813</td> </tr> <tr> <td>2</td> <td>Bio CNG plants</td> <td>2</td> <td>200</td> </tr> <tr> <td>3</td> <td>Garden waste and tender coconut shell processing plants</td> <td>4</td> <td>320</td> </tr> <tr> <td>4</td> <td>Processed through Service provider (GCC)</td> <td></td> <td>250</td> </tr> <tr> <td>5</td> <td>Onsite Composting Centres</td> <td>907</td> <td>350</td> </tr> <tr> <td>6</td> <td>Bio-methanation plants</td> <td>107</td> <td>259</td> </tr> <tr> <td>7</td> <td>Windrows and Vermi Composting centres</td> <td>565</td> <td>1,665</td> </tr> <tr> <td></td> <td>Total</td> <td></td> <td>6857</td> </tr> </tbody> </table> <p>The Overall Processing percentage of wet waste is 82%. (6,857 TPD)</p> <ul style="list-style-type: none"> ✓ From April 2024 to June 2024, 43,382 MT of compost is generated in 649 ULBs. This compost is sold at marginal cost or given free of cost to farmers, It is also used in the parks & gardens maintained by ULBs. 	Sl.No.	Available wet waste processing facilities	No. of functional plants	Processing Capacity (TPD)	1	Micro Composting Centres	1,051	3813	2	Bio CNG plants	2	200	3	Garden waste and tender coconut shell processing plants	4	320	4	Processed through Service provider (GCC)		250	5	Onsite Composting Centres	907	350	6	Bio-methanation plants	107	259	7	Windrows and Vermi Composting centres	565	1,665		Total		6857	<p>8,358 TPD</p> <p>100 %</p>	<p>1,501TPD</p> <p>(18%)</p>	<p><u>GCC:</u></p> <ul style="list-style-type: none"> ✓ Construction of 5 nos of Bio-CNG plant of total design capacity 500 TPD (100 TPD each) are in progress. ✓ Further 2 nos of Bio-CNG processing plant with capacity of 500 TPD capacity each is proposed to handle the gap. Out of which, 1 No Bio-CNG plant tender received and opened on 19.08.2024. ✓ Also 2 nos of composting plants of 800 TPD at Kodungaiyur and 500 TPD at Perungudi is proposed to handle the further requirement. Out of which, 800 TPD Kodungaiyur tender received and opened on 19.08.2024. <p><u>DMA:</u></p> <ul style="list-style-type: none"> ✓ 26 MCCs with processing capacity of 160 TPD is under construction. ✓ 76 MCCs with processing capacity of 354 TPD is sanctioned for the year 2024-25. 39 Nos are in various stage of implementation and 37 Nos are under tender stage. ✓ 7 Nos of Bio CNG plants approved through PPP mode, 6 Nos tender are under evaluation. & 1 No. retender <p><u>DTP:</u></p> <ul style="list-style-type: none"> ✓ 77 Windrows composting centres with capacity of 187 TPD are under construction. ✓ 47 Windrow Composting centers (47 TPD) sanctioned for the year 2024-2025. 19 Nos are in various stage of implementation and 28 Nos are under tender stage.
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<p>Dry Waste</p> <p>Total Dry waste generation – 5,629 TPD</p> <p>✓ To dispose the dry waste generated in ULBs, 672 nos of Material Recovery Facilities/Resource recovery centres with capacity of 2233 TPD has been constructed and put to use. The ULBs having land constraints have established the RRCs in the MCCs itself.</p>	<p>5,629 TPD</p> <p>100 %</p>	<p>2,154 TPD</p> <p>(28%)</p>	<p><u>GCC</u></p> <p>✓ The Waste to Energy plant with capacity of 1,500 MT and 2 nos of Automated MRF with capacity of 2,400 TPD each is proposed under SBM 2.0. for which DFR is under preparation through the consultant for Perungudi (Chennai South), For Kodungaiyur (Chennai North) MRF plant, tender received and evaluation.</p> <p><u>DMA:</u></p> <p>✓ Out of 110 Material Recovery Facilities sanctioned, under SBM 2.0, 72 works are completed, and 38 works are in various stages of construction.</p> <p>✓ Out of 101 Material recovery facility (593.TPD) sanctioned for the year 2024-2025, 77 Nos are in various stage of implementation and 24 Nos are under tender stage.</p> <p>✓ 4 Nos of Automated material recovery facility with total capacity of 600 TPD is proposed to handle the dry waste. Approval for 2 Corporations has been obtained under PPP-DBFOT model, 2 more corporations are under scrutiny.</p> <p>✓ 2 Nos Waste to Energy facility with capacity 1250 TPD is under feasibility study for cluster based approach for handling dry waste.</p> <p><u>DTP:</u></p> <p>✓ Under SBM 2.0, 313 Material Recovery Facilities with capacity of 402 TPD have been sanctioned and 220 works are completed, and 93 works are under construction.</p> <p>✓ Out of 22 Material recovery facility (35 TPD) sanctioned for the year 2024-2025, 7 Nos are in various stage of implementation and 15 Nos are under tender stage.</p>									
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Total		3,475										
<p>✓ 51,685 MT of recyclable waste was sold and Rs.6.15 Crore was distributed to sanitary workers for the period from 01.04.2024 to 30.06.2024.</p> <p>✓ 23,549 tonnes of non-saleable, non-recyclable waste was disposed to cement industries from 01.04.2024 to 30.06.2024.</p> <p>✓ Total dry waste processed – 3,475 TPD.</p>												

SWM Rules 15 (w), (zh), (zi)	Scientific Land fill Desired Objective of Zero Waste Concept
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Current Status	Desirable Level	Gap	Proposal for attending gap
✓ Currently inert /residue from Wet and Dry waste facilities are used for filling low lying areas.	1,558 TPD (100%)	541 TPD (35%)	✓ Under SBM 2.0, 5 nos of Scientific landfill with capacity of 1200 TPD have been proposed on cluster basis to bridge the gap.

SWM Rules 15 (zi), (zk)	Removal of Legacy waste Bio Mining, Bio Remediation or Bio capping of legacy waste in dumpsite
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Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ✓ Reclamation of dump yard filled with legacy waste through bio mining process is proposed. The total legacy waste in the 291 locations is 224 lakh cu.m.- ✓ Bio Mining work have been taken up in 289 locations (19 Corporations, 104 Municipalities and 131 Town Panchayats) to remove the 224 lakhs Cu.m of Legacy waste. After completion of the biomining works, about 1500 acres of land will be reclaimed. ✓ Bio Mining works have been completed in 187 locations and 82 lakh Cu.m of legacy waste is cleared, and 980 acres of land has been reclaimed. ✓ So far 23.50 lakh cum Inert, 31.80 lakh cum fine soil, 3.82 lakh cum of other fractions and 14.87 lakh cum of RDF is remediated from these 151 locations. ✓ RDF is disposed with cement industry; Fine soil is disposed to fill low lying areas after study of its composition to see that there is no contamination of heavy metals. ✓ In addition to above, 45.3 lakh cu.m of legacy waste has been cleared from 104 sites where the biomining work is in progress. ✓ Centre for Environmental Studies, Guindy Campus, Anna University, Chennai has been engaged as Third-Party Inspection Agency for technical guidance in Bio-mining works. They certify the quality of waste Bio mined and based on that certification only, payment is made to contractor. 	224 lakh Cu.m (100%)	(Completed – 127.30 lakh cu.m (57%) Fund Sanctioned & under progress – 96.70 lakh cum (43%)	✓ In 104 locations, remediation works are in progress.

SWM Rules 15 (x)	Budgetary Provision - make adequate provision of funds for capital investments as well as operation and maintenance of solid waste management services in the annual budget ensuring that funds for discretionary functions of the local body have been allocated only after meeting the requirement of necessary funds for solid waste management and other obligatory functions of the local body as per these rules;
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Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ✓ Adequate fund provision by SBM through State Government and GoI has been made for Solid Waste Management <ul style="list-style-type: none"> • GoTN & GoI - Rs. 1,057.36 Cr ✓ Operation and Maintenance of processing facilities is being done by the ULBs from their General Fund 	-	-	-

SWM Rules 15 (za), (zb)	Submission of Annual Report by the local bodies
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Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ✓ Annual Report for the year 2022-23 as per Form IV has been submitted to TNPCB in the month of August 2023. ✓ Will be followed in subsequent years also. 	-	-	Submitted

SWM Rules 15(zc), 15(l), 15(g), 15(zg)	Information, Education, Communication Special Task Force		
Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ✓ Periodical and regular training programmes are organized. ✓ Periodical RWA meetings are conducted to enlighten the waste generators. ✓ 2855 Animators, 270 Supervisors & 21 Coordinators are engaged exclusively for IEC under SBM and are working from October 2017 to till date. ✓ Vide G.O (Ms) No.58, Municipal Administration and Water Supply (MAIV) Department. dated 20.4.2019 Government has issued order for the formulation of Special Task Force in all the Districts for SWM - IEC activities. ✓ “People’s Movement for Clean Cities” has been launched by the Honourable Chief Minister on 03.06.2022. The Fundamental objective of the scheme is to sensitize every citizen about solid waste management, especially source segregation of waste and to bring behavioral change. The campaign revolves around the theme “My Waste, My Responsibility”. The campaign is carried out on every 2nd and 4th Saturdays of the month in all urban local bodies. On every third Wednesday, awareness campaigns are conducted in Schools and Colleges about solid waste management and sanitation. ✓ Special Task Force have been constituted in all the districts. District Collectors are conducting the Special Task Force meetings to review the SWM activities in ULBs and MoM are issued. 	Nil	Nil	Complied

SWM Rules 16(1)(a), (5), (6)	Enforcement of Rules in the State through local bodies Directions to local bodies for safe handling and disposal of domestic hazardous wastes Regulate inter-State movement of waste			
	Current Status	Desirable Level	Gap	Proposal for attending gap
	<ul style="list-style-type: none"> • DO letters dated 25.04.2016 & 14.06.2016 and letters dated 04.10.2016, 26.11.2016 & 19.01.2017 were addressed to Directorate of Municipal Administration, Directorate of Town Panchayat, and RDPR department to comply with the provisions of the Solid Waste Management Rules, 2016. • Meeting convened on 11.01.2017 with the officials of Corporation of Chennai, DMA & DTP to comply with the provisions of the Solid Waste Management Rules, 2016 • One day Sensitization Program on “Implementation of Solid Waste Management Rules, 2016” conducted by the TNPCB on 30th January 2017. • One day training program on salient features of Solid Waste Management Rules conducted for the District Co- coordinators of Eco-Club, National Green Corps (NGC) & Scouts on 20.09.2019. • Letter dated 06.01.2020 addressed to the Additional Chief Secretary to Government, Municipal Administration & Water Supply Department to direct the respective departments to allocate/earmark adequate land for setting up of processing and disposal facilities for solid waste. • Training on Solid Waste Management including legacy waste provided to all Executive Officers of Town Panchayat on 30.01.2020 & 31.01.2020. • Directions were issued vide proceedings dated: 07.07.2022 to the Commissioner, Greater Chennai Corporation, the Director of Municipal Administration, the Director of Town Panchayats and the Director of 	As indicated in SWM Rule 2016	Nil	Complied

SWM Rules	Enforcement of Rules in the State through local bodies			
16(1)(a), (5), (6)	Directions to local bodies for safe handling and disposal of domestic hazardous wastes Regulate inter-State movement of waste			
Current Status		Desirable Level	Gap	Proposal for attending gap
<p>Rural Development & Panchayat Raj Department regarding prevention of dumpsite fire incidents.</p> <p>Issue of Directions and Environmental Compensations:</p> <ul style="list-style-type: none"> As per the orders of the Hon'ble NGT (PB) in O.A No. 606 of 2018 dated 02.07.2020, TNPCB assessed Interim Environmental Compensation for non compliance of SWM Rules, 2016 and Directions issued under section 5 of the Environment the (Protection) Act, 1986 to 14 Corporations, 4 municipalities, 3 Town Panchayats, 2 Panchayat Unions and 7 village Panchayats to remit Interim Environmental Compensation. For the quarter from April 2024 to June 2024 Directions issued with respect to remittance of Interim Environmental Compensation to Naravarikuppam Town Panchayat (24.06.2024) and Elakkiyampatti Panchayat (24.06.2024)." Show Cause Notice issued under section 5 of the Environment (Protection) Act, 1986 as to why the Board shall not recover Interim Environmental Compensation for the non-compliance of the SWM Rules, 2016 to 3 Corporations, 7 municipalities, 7 Town Panchayats, 3 Panchayat Unions and 8 Village Panchayats. "Directions under section 5 of the Environment (Protection) Act, 1986 issued for non-compliance of the SWM Rules, 2016 to 4 Corporations, 6 municipalities, 9 Town Panchayats, one Panchayat Union and 4 village Panchayats. For the quarter from April 2024 to June 2024 Directions issued to Coimbatore Corporation (05.06.2024)." 				

SWM Rules 16(1)(a), (5), (6)	Enforcement of Rules in the State through local bodies Directions to local bodies for safe handling and disposal of domestic hazardous wastes Regulate inter-State movement of waste			
Current Status		Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> • Directions issued to the Line Departments under Section 5 of the Environment (Protection) Act, 1986 to carry out bio mining and bio-remediation of dumpsites in compliance with the provisions of the SWM Rules, 2016 & CPCB Guidelines. • Show Cause Notice has been issued to the Greater Chennai Corporation, for the non compliance SWM Rules, 2016 as to why prosecution should not be launched by filing complaint as per the powers conferred under Environment (Protection) Act, 1986. • Criminal case has been filed against the Executive Officer, Mamallapuram Town Panchayat for not complying with the Solid Waste Management Rules, 2016. <p>Regulating inter-State movement of waste:</p> <p>TNPCB has taken following initiatives for curtailing dumping of SW across the borders of the State:</p> <ul style="list-style-type: none"> • Letter dated 03.01.2020, 24.12.2021 & 27.08.2022 has been addressed to the Transport Department, Police Department and the Commercial Taxes Department to have strict vigil in the check post located at the Border of Tamilnadu and Kerala and to ensure no vehicle with the solid waste is allowed into the state of Tamilnadu. • Existing District Level committee under Bio Medical Waste Rules 2016 with District Collector as Chairman along with Revenue, Police, Commercial Taxes, Transport, Local Bodies and TNPCB officials in the Coimbatore & Kanyakumari Districts is monitoring illegal transportation of the waste from Kerala. 				

SWM Rules 16(1)(a), (5), (6)	Enforcement of Rules in the State through local bodies Directions to local bodies for safe handling and disposal of domestic hazardous wastes Regulate inter-State movement of waste			
Current Status		Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> Letter dated: 12.01.2024 has been addressed to the Regional Transport Officer, Vellore District to cancel the Registration certificate of vehicle involved in illegal transportation & dumping of waste from Kerala into Tamil Nadu (Odathurai, Kavindapadi, Bhavani Taluk, Erode District) 				
SWM Rules 16(b), (4), 19(4)	Monitor environmental standards (Air Quality Monitoring, Water Quality Monitoring (ground water) as per Schedule II of SWM Rules, 2016)			
Current Status		Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> TNPCB conducted Ground Water Quality monitoring at the vicinity of solid waste dumpsites pertaining to Corporations and Municipalities. TNPCB conducted Ambient Air Quality monitoring at the vicinity of solid waste dumpsites pertaining to the Corporations and Municipalities Continuous Ambient Air Quality Monitoring stations installed in the vicinity of Kodungaiyur and Perungudi dumpsites in Greater Chennai Corporation. 		To carry out Ground Water Quality Monitoring at dumpsites of Corporations and Municipalities	Nil	Achieved

SWM Rules 16 (c), (d), (e), (f), (g), (h), (2), 19 (3) 24 (3)	Issue of Authorisation to local bodies generating solid waste greater than 5 tons/day Submission of Annual Report		
Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> Tamil Nadu Pollution Control Board has issued authorization to 226 Local Bodies and Local bodies which did not apply for authorization and not having valid authorization are directed to apply for authorization. 	To issue Authorisation to all urban local bodies generating solid waste greater than 5 tons/day	Nil	Achieved
<ul style="list-style-type: none"> TNPCB has submitted Annual Report to the CPCB for the year 2022- 2023 on 18th August 2023. 	To submit Annual Report to the CPCB before 31st July every year.	Nil	Nil.

SWM Rules 20 (a), (b), (c), (d), (e), (f)	Solid Waste Management in hilly areas; Avoiding Construction of Landfills on Hills Awareness on non-littering Awareness on Provisions of Bye-Law through Hoardings Levy of SWM Charge from Tourists Identification of land for SWM Processing facilities in hilly areas
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Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ✓ All the ULBs are disposing waste with a concept of Zero Residue. ✓ Hoardings on awareness of non-littering are displayed in all hilly areas which are under ULBs jurisdiction. ✓ Bye laws have been framed and notified with provisions for user fee & spot fines 	-	-	Alternative methods to process the wet waste like Thermophilic bio methanation plant are being used. One such plant is operational in Kodaikanal Municipality. to suit the hilly climate conditions.

<p>from tourists.</p> <ul style="list-style-type: none"> ✓ Decentralized Micro Composting Centre (MCC) have been established in hilly areas of Nilgiris, Dindigul and Theni Districts. ✓ In Nilgiris District (4 ULBs) – 9 no's of MCC with a handling capacity of 29 TPD and 14 no's of Onsite Composting Centre (OCCs) with a handling capacity of 5 TPD and Windrow composting facility to handle 10 TPD have been established. ✓ 11 TPs in Nilgiris District are handling their waste (44.33 TPD) through 11 no's of Windrow composting facilities. ✓ In Kodaikanal Municipality, 1 MCC with a handling capacity of 2 TPD and 4 Onsite Composting Centre (OCCs) with a handling capacity of 2 TPD have been established. ✓ 12 TPs of Dindigul, Theni and Tirunelveli districts process their waste (46.155 TPD) through Windrow composting. ✓ Recyclables are sold to recyclers and Non-recyclables are sent to Ultra tech & ACC cements for use as alternate fuel. 			<p>Meanwhile, currently Windrow Composting / MCC also being practiced for processing of wet waste.</p> <ul style="list-style-type: none"> ▪ 5 Biomethenation plants are proposed in Udhamandalam, Valparai, Coonoor and Kodaikanal with total capacity of 22 TPD and are in tender stage.
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SWM Rules 22		Time frame for implementation	
S.No.	Activity	Time limit from the date of Notification of Rules	Present status of compliance by the State of Tamilnadu
1	Identification of suitable sites for setting up solid waste processing facilities	1 year	Sites are Identified. All the ULBs in Tamilnadu are processing the wet waste using decentralized method by establishing Micro level composting centres by dividing the town into number of zones each comprising of 2 to 3 Wards. In each zone garbage generation quantity should not be more than five TPD. Material Recovery Facilities/Resource Recovery Facilities are also proposed in 4 to 10 locations covering maximum of 10 wards for each location.
2	Identification of suitable sites for setting up common regional sanitary landfill facilities	1 year	Under SBM 2.0, suitable Land identification for setting up 5 number of Sanitary landfills is in progress.
3	Procurement of suitable sites for setting up solid waste processing facility and sanitary landfill facilities.	2 years	<ul style="list-style-type: none"> ✓ Suitable land has been identified for Solid Waste Management processing facilities. ✓ For sanitary landfills, suitable Land identification is in progress.
4	Enforcing waste generators to practice segregation of bio degradable, recyclable, combustible, sanitary waste domestic hazardous and inert solid wastes at source,	2 years	Waste Generators are properly educated and encouraged to practice the segregation of waste by conducting various awareness program. Enforcement measures by way of spot fines are also taken up So far 85% segregation has been achieved.

S.No.	Activity	Time limit from the date of Notification of Rules	Present status of compliance by the State of Tamilnadu																												
5	Ensure door to door collection of segregated waste and its transportation in covered vehicles to processing or disposal facilities.	2 years	98% door to door collection is achieved.																												
6	Ensure separate storage, collection and transportation of construction and demolition wastes	2 years	All ULBs have earmarked the C&D waste deposition sites. Currently C& D Waste is being used for laying base course for formation of roads and filling up of low-lying areas. In SBM 2.0, 6 cities have been sanctioned with C&D waste processing facilities																												
7	Setting up of solid waste processing facilities by all local bodies having 1,00,000 or more population	2 years	<p>Status of Solid Waste Processing facilities</p> <p>Total Waste Generation in 649 ULBs is 15,545 TPD</p> <p>✓ Total wet waste generation is 8,358 TPD (54%)</p> <table border="1"> <thead> <tr> <th>Sl.No.</th> <th>Available wet waste processing facilities</th> <th>No. of functional plants</th> <th>Processing Capacity (TPD)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Micro Composting Centres</td> <td>1,051</td> <td>3813</td> </tr> <tr> <td>2</td> <td>Bio CNG plants</td> <td>2</td> <td>200</td> </tr> <tr> <td>3</td> <td>Garden waste and tender coconut shell processing plants</td> <td>4</td> <td>320</td> </tr> <tr> <td>4</td> <td>Processed through Service provider (GCC)</td> <td></td> <td>250</td> </tr> <tr> <td>5</td> <td>Onsite Composting Centres</td> <td>907</td> <td>350</td> </tr> <tr> <td>6</td> <td>Bio-methanation plants</td> <td>107</td> <td>259</td> </tr> </tbody> </table>	Sl.No.	Available wet waste processing facilities	No. of functional plants	Processing Capacity (TPD)	1	Micro Composting Centres	1,051	3813	2	Bio CNG plants	2	200	3	Garden waste and tender coconut shell processing plants	4	320	4	Processed through Service provider (GCC)		250	5	Onsite Composting Centres	907	350	6	Bio-methanation plants	107	259
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S.No.	Activity	Time limit from the date of Notification of Rules	Present status of compliance by the State of Tamilnadu												
			7	Windrows and Vermi Composting centres	565	1,665									
		Total		6,857											
8	Setting up solid waste processing facilities by local bodies and census towns below 1,00,000 populations.	3 years	<p>Dry waste facilities</p> <p>✓ To dispose the dry waste generated in ULBs, 672 nos of Material Recovery Facilities/Resource recovery centres with capacity of 2233 TPD has been constructed and put to use. The ULBs having land constraints have established the RRCs in the MCCs itself.</p> <table border="1"> <thead> <tr> <th>Sl.No.</th> <th>Available dry waste processing facility</th> <th>Processing Capacity (TPD)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Material Recovery Facilities/Resource recovery centres</td> <td> <ul style="list-style-type: none"> 672 Material Recovery Facilities/Resource Recovery Centres have been set up to process 2,233 TPD of dry waste. 1,242 TPD of saleable/recyclable waste is sold to local vendors for recycling and reuse. </td> </tr> <tr> <td colspan="2">Total</td> <td>3,475</td> </tr> </tbody> </table>				Sl.No.	Available dry waste processing facility	Processing Capacity (TPD)	1	Material Recovery Facilities/Resource recovery centres	<ul style="list-style-type: none"> 672 Material Recovery Facilities/Resource Recovery Centres have been set up to process 2,233 TPD of dry waste. 1,242 TPD of saleable/recyclable waste is sold to local vendors for recycling and reuse. 	Total		3,475
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Total		3,475													
9	Setting up common or standalone sanitary landfills by or for all local bodies having 0.5 million or more population for the disposal of only such residual wastes from the processing facilities as well as	3 years	as serial no. 2 & 3 above												

S.No.	Activity	Time limit from the date of Notification of Rules	Present status of compliance by the State of Tamilnadu
	untreatable inert wastes as permitted under the Rules		
10	Setting up common or regional sanitary landfills by all local bodies and census towns under 0.5 million population for the disposal of permitted waste under the rules	3 years	as serial no. 2 & 3 above
11	Bio-remediation or capping of old and abandoned dump sites	5 years	<ul style="list-style-type: none"> ✓ Reclamation of dump yard filled with legacy waste through bio mining process is proposed. The total legacy waste in the 291 locations is 224 lakh cu.m:- ✓ Bio Mining work have been taken up in 289 locations (19 Corporations, 104 Municipalities and 131 Town Panchayats) to remove the 224 lakhs Cu.m of Legacy waste. After completion of the biomining works, about 1500 acres of land will be reclaimed. ✓ Bio Mining works have been completed in 187 locations and 82 lakh Cu.m of legacy waste is cleared, and 980 acres of land has been reclaimed. ✓ So far 23.50 lakh cum Inert, 31.80 lakh cum fine soil, 3.82 lakh cum of other fractions and 14.87 lakh cum of RDF is remediated from these 151 locations. ✓ RDF is disposed with cement industry; Fine soil is disposed to fill low lying areas after study of its composition to see that there is no contamination of heavy metals. ✓ In addition to above, 45.3 lakh cu.m of legacy waste has been cleared from 104 sites where the biomining work is in progress. ✓ Centre for Environmental Studies, Guindy Campus, Anna University, Chennai has been engaged as Third-Party Inspection Agency for technical guidance in Bio-mining works.

S.No.	Activity	Time limit from the date of Notification of Rules	Present status of compliance by the State of Tamilnadu
			They certify the quality of waste Bio mined and based on that certification only, payment is made to contractor
12	Legal Frame Work		<ol style="list-style-type: none"> 1. SWM Policy for the State as per clause 11 (a) of the SWM Rules has been notified in 24th August 2018 by the Government. 2. Bye laws as per clause 15 (e) of SWM Rules 2016 for all ULB's have been notified and in force.
13	Annual Report		TNPCB has submitted the Annual Report for the year 2023-24 to the Central Pollution Control Board

Thematic Area: 2. Compliance to Bio-medical Waste Rules

BWM Rule 4 (d)	Duties of Occupier of HCF Phase out use of chlorinated plastic bags		
Current Status	Desirable Level	Gap	Proposal for attending gap
Health care Facilities (HCF) are being supplied with Non-chlorinated plastic bags by the Common Biomedical Waste Treatment Facilities (CBMTWF).	-	Nil	-

BWM Rule 4 (i)	Duties of Occupier of HCF Bar- Code System for bags		
Current Status	Desirable Level	Gap	Proposal for attending gap
Bar coding system is being implemented in the 30864 HCFs covered by 12 CBMTWFs.	Implementation of Bar coding by all the HCFs is in co-ordination with the CBMWTFs.	To ensure that all the HCFs implement Bar coding system.	" All the CBMWTFs have been issued with Directions under Section 5 of Environmental (Protection) Act, 1986 vide Proc. dated 27.12.2019 and addressed vide letter dated 21.05.2020 to implement Bar coding system in the HCFs attached with them.

BWM Rule 4 (p)		Duties of Occupier of HCF Annual report on its website		
Current Status	Desirable Level	Gap	Proposal for attending gap	
All the HCFs have been instructed to upload the Annual report in their website.	Uploading of Annual Report in Form – IV by the bedded HCFs in their website as per the Biomedical Waste Management Rules, 2016 as amended in 2019.	To ensure that all the bedded HCFs upload the Annual report in their website as per BMWM Rules, 2016 as amended in 2019.	Conditions have been imposed in the Consent orders issued to the HCFs to upload the Annual report in their website. Further instructions have been issued to all the HCFs through the District Environmental Engineer. Also, TNPCB uploaded standing instructions to all the HCFs in the TNPCB website directing all the HCFs to comply with the rules including uploading of Annual Report by the HCFs.	
BWM Rule 4 (t)		Duties of Occupier of HCF Existing incinerators to achieve retention time in secondary chamber		
Current Status		Desirable Level	Gap	Proposal for attending gap
In Tamil Nadu, no captive biomedical waste treatment and disposal facilities are available. The entire biomedical waste generated from the HCFs is disposed through 12 Common Biomedical Waste Treatment and Disposal Facilities located in Tamil Nadu.		-	NIL	-

BWM Rule 5 (c)	Duties of Occupier of CBMWTFs Bar coding and global positioning system		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Bar coding system is being implementing in the HCFs covered by the 12 CBMTWFs which are in operation in their jurisdiction.</p> <p>All the vehicles of the CBMWTFs have been fitted with GPS Tracking system.</p>	<p>100 % Implementation of Bar coding by all the HCFs in co-ordination with the CBMWTFs.</p>	<p>To ensure that all the HCFs implement Bar coding system.</p>	<ul style="list-style-type: none"> • All the CBMWTFs have been issued with Directions under Section 5 of Environmental (Protection) Act, 1986 vide Proc. dated 27.12.2019 and addressed vide letter dated 21.05.2020 to implement Bar coding system in the HCFs attached with them. • Further instructions have been issued to all the HCFs through the District Environmental Engineers to implement bar coded bags in the HCFs located in their jurisdiction. • Also, TNPCB uploaded standing instructions to all the HCFs in the TNPCB website directing all the HCFs to comply with the rules including Bar coding system.

BWM Rule 5 (l)	Duties of Occupier of CBMWTFs Display details of authorisation, treatment, annual report etc., on its website		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Out of the 12 CBMWTFs, 11 CBMWTFs are uploading the daily report on the waste collected and treated in their website and One CBMWTF is temporarily closed.</p>	-	Nil	-

BWM Rule 5 (q)	Duties of Occupier of CBMWTFs Upgrade existing incinerators to achieve the standards for retention time in secondary chamber		
Current Status	Desirable Level	Gap	Proposal for attending gap
Upgrade existing incinerators to achieve the standards for retention time in secondary chamber by 27th March, 2018.	All the CBMWTFs to achieve the standards for retention time in secondary chamber.	Nil	All the CBMWTFs are achieving the standards for retention time in secondary chamber
All the 12 CBMWTFs have incinerators and the 11 CBMWTFs are achieving the standards for retention time in the secondary chamber as one CBMWTF is temporarily closed.	-	-	-

BMWM Rules	Duties of Occupier of CBMWTFs Online connectivity of CBMWTFs		
Current Status	Desirable Level	Gap	Proposal for attending gap
Out of 12 CBMWTFs, 11 facilities have installed online monitoring system for the parameters primary chamber temperature, secondary chamber temperature, PM, NO _x , HCl, CO, CO ₂ & O ₂ . One CBMWTF is temporarily closed.	-	--	Achieved

BMW (Schedule III) 6 (i)	Rule	Duties of State Pollution Control Board Inventorization Issue of Authorisation		
Current Status		Desirable Level	Gap	Proposal for attending gap
Tamil Nadu Pollution Control Board has inventoried 30864 Health Care Facilities (Private and Government hospitals) so far (as on 30.06.2024) and issued with Authorisation under BMWM Rules, 2016 including one time Authorization for non-bedded HCFs like clinics, laboratories, research institutes, Veterinary hospitals, etc.,		-	-	-

BMW (Schedule III) 6 (ii)	Rule	Duties of State Pollution Control Board Annual Report		
Current Status		Desirable Level	Gap	Proposal for attending gap
As per Rule 13 (2), SPCB has to submit the Annual report to CPCB on or before the 31st July of every year. TNPCB has submitted Annual report to CPCB for the year 2022 vide TNPCB letter dated 31.07.2023.		-	-	-

BMW (Schedule III) 6 (v)	Rule Duties of State Pollution Control Board Action against health care facilities or common biomedical waste treatment facilities for violation Monitoring of compliance conditions of authorisation	Desirable Level	Gap	Proposal for attending gap
Current Status		--	--	-
<p>Under E(P) Act, 1986: Directions under section 5 of the Environment (Protection) Act, 1986 vide proc. dated 14.09.2022, 23.01.2024, and 23.08.2023 respectively as amended were issued to 3 CBMWTFs namely M/s. Teknotherm Industries, Coimbatore; M/s. Kovai Bio Waste Management, Coimbatore for non-compliance of BMWM Rules, 2016 and M/s. Re Sustainability IWM Solutions Limited, Chengalpattu District for non-compliance of BMWM Rules, 2016. Further directions dated 20.12.2023, under section 5 of E(P) Act, 1986 as amended were issued to all the CBMWTFs under operation for Non-compliance of the provisions of Bio-medical Waste Management Rules, 2016 based on the complaint received from the Director of Animal Husbandry & Veterinary Services, Chennai.</p> <p>"SCN issued to HCFs: Show Cause Notice under Section 5 of E(P) Act, 1986 vide proc dt. 26.06.2023, and dt. 26.03.2024 was issued to M/s. Government Tiruvannamalai Medical College and Hospital, Tiruvannamalai District and M/s. C.S.I. Jayaraj Annapackiam Mission Hospital, Tirunelveli District respectively for non-compliance of BMWM Rules."</p> <p>"SCN issued to CBMWTFs: Show Cause Notice under Section 5 of E(P) Act, 1986 issued to CBMWTFs namely, vide proc. dt. 10.05.2021 were 1. M/s. Aseptic Systems Bio Medical Waste Management Company, Tirunelveli, 2. M/s. Ken Bio Links Pvt Ltd, Vellore vide proc. dt. 01.12.2022, 3. M/s. Ramky Energy and Environment Limited, Salem, vide proc. dt. 28.06.2024, 4. M/s. Ramky Energy and Environment Limited, Virudhunagar vide proc. dt. 27.04.2023, 5. M/s. Teknotherm Industries, Coimbatore vide proc. dt. 10.05.2021, for non-</p>				

<p>compliance of BMW Rules."</p> <p>"SCN issued for the levy of EC:</p> <p>Show Cause Notice under Section 5 of E(P) Act, 1986, were issued to 2 CBMWTFs namely 1. M/s. Re-sustainability Health Care Solutions Limited, Virudhunagar vide proc dt. 27.04.2023, and 2. M/s. Ramky Energy & Environment Limited, Salem vide proc. dt. 28.06.2024 for the levy of Environmental Compensation."</p> <p>"Directions issued to remit EC:</p> <p>Directions under Section 5 of E(P) Act, 1986 to remit the EC levied was issued to 2 CBMWTFs namely 1. M/s. Ramky Energy & Environment Limited, Salem vide proc dt. 03.02.2023 and 2. M/s. Re-sustainability Health Care Solutions Limited, Virudhunagar, vide proc. dt. 07.08.2023."</p> <p>Directions issued to local bodies and other departments:</p> <p>Directions under section 5 of E(P) Act, 1986 vide proc. dt. 12.12.2023 has been issued to the Directorate of Municipal Administration, the Greater Chennai Corporation & the Commissionerate of Town Panchayats, Urban Administrative Building Society w.r.t Domestic hazardous waste segregation and disposal.</p> <p>Directions under Section 5 of E(P) Act, 1986 vide proc. dt.17.08.2023 w.r.t Expired medicines segregation and disposal has been issued to the Directorate of Medical and Rural Health Services (DMRHS), Chennai.</p> <p>Proceeding dt. 07.09.2023, Directorate of Medical and Rural Health Services (DMRHS), the Directorate of Medical Education (DME), the Directorate of Public Health and Preventive Medicine (DPH &PM), the Indian Medical Association (IMA), Tamil Nadu State Branch & the Directorate of Animal Husbandry & Veterinary Service has been addressed to ensure strict implementation of 100% bar-coding in all HCFs.</p>			
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BMW Rule (Schedule III) 6 (vi)		Duties of State Pollution Control Board Undertake Inventory of Bio- Medical Waste		
Current Status		Desirable Level	Gap	Proposal for attending gap
TNPCB has inventoried 30864 Health care Facilities generating biomedical waste, as per the Biomedical Waste Management Rules, 2016.		-	-	-

BMW Rule (Schedule III) 6 (viii)		Duties of State Pollution Control Board Third party audits of the common bio-medical waste treatment facilities		
Current Status		Desirable Level	Gap	Proposal for attending gap
TNPCB has conducted the Third Party Audit of 10 common bio-medical waste treatment facilities under operation through reputed institutions/ organizations as per the BMWM Rules, 2016.		Undertake and support third party audits of the common bio-medical waste treatment facilities in their State.	-	TNPCB has carried out third party audit for the 10 CBMWTFs through the two NABET consultants viz., M/s. Centre for Environment, Health & Safety, Annamalai University and M/s. Green Enviro Engineers Pvt Ltd, Plot No. – 316, Awadhपुरi, Vikas Nagar, Near Sale tax office, Kanpur – 208024 for evaluating the performance of the CBMWTFs – 5 Nos. each. The NABET consultants have submitted the reports for all the 10 CBMWTFs.

BMW Rule (Schedule III) 6 (x)		Duties of State Pollution Control Board Advisory Committee		
Current Status		Desirable Level	Gap	Proposal for attending gap
<u>State Level Advisory Committee:</u>		—	Nil	-

<p>The Health, Family & Welfare (H1) Department vide G.O.(Ms). No. 277 dated 29.11.2016 had constituted the State Level Advisory Committee under the chairmanship of Principal Secretary of Health & Family Welfare Department. First State Level Advisory Committee meeting was held on 10.05.2017 and Second State Level Advisory Committee meeting on 10.01.2018.</p> <p>Further, Third, Fourth, Fifth, Sixth, Seventh & Eighth State Level Advisory Committee meetings were held on 25.09.2018, 10.04.2019, 26.11.2019, 24.12.2020, 22.07.2021 & 22.12.2022.</p> <p>District Level Advisory Committee:</p> <p>Also, the Health, Family & Welfare (H1) Department vide G.O. (Ms). No. 179 dated 06.07.2016 and G.O. (Ms) No. 192 Dated 19.05.2017 has issued orders to constitute the District Level Monitoring Committee under the chairmanship of respective District Collectors. In this regard, District Level Monitoring Committees have been formed in all the Districts and regular meetings are being held.</p> <p>State Level and district level Committees under G.O. (Rt) No. 597 dt.16/8/2022:</p> <p>Also, as per the orders of the Hon'ble NGT in O.A. No. 180 of 2021, a State Level Committee under the Chairmanship of The Principal Secretary to Government, Health & Family Welfare Department and District level Committees under the Chairmanship of the District Collectors were constituted vide G.O. (Rt) No. 597 dt.16/8/2022. In this regard, the First State Level Committee meeting was held on 27.12.2022.</p> <p>So far, Dharmapuri, Theni, Salem, Dindigul, Thiruvannamalai, Madurai, Vaniyambadi, Villupuram and Kallakurichi, Ramanathapuram, Krishnagiri, Erode, Thanjavur, Ariyalur & Perumbalur, Trichy, Namakkal, Tiruvallur, Sivagangai, Tirunelveli & Tenkasi, Kanyakumari, Pudukottai and Cuddalore have formed and conducted the first District Level Committee (DLC) meeting in their respective jurisdictions.</p>			
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BMW Rule (Schedule III) 6 (x)	Duties of State Pollution Control Board List of Registered or Authorised (or give consent) Recyclers			
Current Status		Desirable Level	Gap	Proposal for attending gap
The list of Registered/ consented Recyclers has been published in the TNPCB website.		—	NIL	Achieved
BMW Rule Others	Duties of State Pollution Control Board Formation of District Planning Committee as per the Hon'ble NGT order dated 15.07.2019 in O.A. No.710-713/2017			
Current Status		Desirable Level	Gap	Proposal for attending gap
As per the Hon'ble NGT order dated 15.07.2019 in O.A. No.710-713/2017, District Committee has been formed and functioning in each District. Further, as per the Hon'ble NGT order dated 26.09.2019 in O.A.No.360 of 2018,CPCB has formulated model District Environmental plan (DEP) and the same was prepared by all the District Collectors of respective Districts. The DEPs of all the Districts were compiled and submitted to Director of Environment (DOE), Chennai for preparation of State Environmental Plan.		—	-	-

Thematic Area: 3. Compliance to Construction & Demolition Waste

SWM Rules 15 (s) & C&D WASTE RULES: 4, 7	Duties of State Government & Local Authorities Facility for Processing/Recycling facility provide suitable sites for setting up of the storage, processing and recycling facilities for construction and demolition waste		
Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ✓ All ULBs have earmarked the C&D waste deposition areas. ✓ 6 ULBs have proposed to set up processing facilities for C&D waste under SBM 2.0 (Coimbatore, Madurai, Salem, Tiruchirapalli, Thoothukudi and Tiruppur) ✓ In GCC, C&D waste plant with a capacity of 400 TPD each at Kodungaiyur and Perungudi dumping ground is operational. 	100%	95%	<ul style="list-style-type: none"> ✓ Currently C&D Waste is being used for laying base course for formation of roads and filling up of low lying areas. ✓ Tender received for Trichy, LOI issued to the successful bidder, work would be initiated at the earliest. ✓ Salem corporation, tender received and under evaluation. ✓ RFP and estimates documents shared with TNIDB for scrutiny under PPP mode. Once completed, Re-tender will be called for Coimbatore, Madurai, Thoothukudi & Tiruppur corporations.
C&D WASTE RULES: 8	Duties of State Pollution Control Board		
	<ul style="list-style-type: none"> - To monitor implementation of the Rules by the local bodies - To grant authorisation to construction and demolition waste processing facility - To submit Annual Report to the Central Pollution Control Board 		
Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ✓ TNPCB vide Proc. dated 20.05.2020 has issued directions under Section 5 of the E(P) Act, 1986 	100%	95%	<ul style="list-style-type: none"> ✓ TNPCB has issued Consent to Operate under Water (P&CP) Act, 1974 & Air (P&CP) Act, 1981 for the Construction & Demolition waste

<p>to respective Line Departments to take necessary action to comply the provisions of the rules and to provide suitable sites for setting up for the storage, processing and recycling facilities for construction and demolition waste.</p>			<p>processing facilities at Kodungaiyur and Perungudi at Greater Chennai Corporation.</p> <ul style="list-style-type: none"> ✓ Tirunelveli Corporation has proposed to establish a 15TPD capacity C&D waste processing facility at Ramayanpatti. ✓ Trichy Corporation has proposed to set up a 50 TPD C&D waste processing facility under Swachh Bharat Mission (SBM) 2.0. Tender scrutinized and finalised, LOI issued to the successful bidder, Plant construction activity work will be initiated at the earliest. Paver block is to be obtained as by-product. ✓ Salem Corporation has proposed to establish a 50TPD capacity C&D waste processing facility under Swachh Bharat Mission (SBM) 2.0. Tender received and under evaluation, work order will be issued after evaluation. ✓ Coimbatore Corporation has proposed to establish a 100 TPD capacity C& D waste processing facility at Vellalore area under Swachh Bharat Mission (SBM) 2.0 through PPP mode. RFP and estimates documents shared with TNIDB for scrutiny under PPP mode. Once completed, Re-tender will be called for Coimbatore corporation.
<p>✓ TNPCB has submitted Annual Report to the CPCB for the year 2022- 2023 on 31st August 2023.</p>	<p>To submit Annual Report to the CPCB before 31st July every year.</p>	<p>Nil</p>	<p>Nil</p>

Thematic Area: 4. Compliance to Hazardous Waste Rules

HOWM Rules 6 (1-8)		Grant of authorization for managing hazardous and other wastes.		
Current Status		Desirable Level	Gap	Proposal for attending gap
TNPCCB has identified 4612 units generating hazardous wastes as on 31.03.2023 authorization issued.		-	-	Not applicable. since, hazardous waste authorization issued
HOWM Rules 7	7. Power to suspend or cancel an authorization. - (1) The State Pollution Control Board, may, if in its opinion the holder of the authorization has failed to comply with any of the conditions of the authorization or with any provisions of the Act or these rules and after giving him a reasonable opportunity of being heard and after recording reasons thereof in writing cancel or suspend the authorization issued under rule 6 for such period as it considers necessary in the public interest.			
Current Status		Desirable Level	Gap	Proposal for attending gap
1. Direction issued to the TSDF facility of M/s Re sustainability IWM Solutions Limited, Undurumikidakulam, Mukkulam Village, Thiruchuli Taluk, Virudhunagar District that the facility shall not operate without valid consent & HWA vide proc. dt. 13.04.2023 2. Closure and disconnection of power supply issued to pre-processor M/s Sandhiya Enviro Tech System – Villupuram due to non-compliance of the conditions stipulated in the HWA vide District Coordination Committee dt. 21.04.2024		-	-	Board is taking action against the units if found violating the conditions of authorizations or any other provision of HOWM Rules, 2016.
HOWM Rules 8	8. Storage of hazardous and other wastes. - (1) The occupiers of facilities may store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilization of such wastes and make these records available for inspection:			
Current Status		Desirable Level	Gap	Proposal for attending gap
TNPCCB is monitoring the units during inspection to ensure that the unit is not storing the Hazardous Waste more than 90 days.		-	-	Board is instructing the units to ensure the storage of Hazardous Waste shall not exceed 90 days by stipulating condition in Authorization.

HOWM Rules 9	Utilization of hazardous and other wastes	Desirable Level	Gap	Proposal for attending gap											
<p style="text-align: center;">Current Status</p> <p>List of Recycling units for recycling of Hazardous Waste under Schedule I, III & IV for which authorization issued under HOWM Rules 2016.</p> <ol style="list-style-type: none"> 1. Recycling units such as Used Oil - 34 Nos, 2. Waste oil – 24 Nos, 3. Lead bearing waste including battery waste – 23 Nos, 4. Paint & Ink sludge/ residue – 3 No, 5. Zinc & Zinc Ash – 13 Nos 6. Copper Scrap – 7 Nos 7. Brass Dross – 2 No. 8. Spent Catalyst – 1No. 9. E-Waste – 4 Nos, 10. Recovery of solvents – 11 Nos 11. Waste dichromate – 4 Nos <p>The Board has authorized 15 cement plants for co processing of 17.46 Lakhs MT per annum of utilizable wastes in cement kilns. During the year 2022-23, about 2.18 lakhs MT of ETP sludge have been disposed to various Cement industries for co-processing. Also the Board has authorized the following pre processing facilities:</p> <table border="1" style="width: 100%;"> <tr> <td>1. M/s GEPIL- Vellore – Authorized capacity – 50000 TPA</td> </tr> <tr> <td>2. M/s Sandhiya Enviro Tech System – Villupuram- 24216 TPA</td> </tr> <tr> <td>3. M/s Cheenu Enviro Management – Coimbatore – 45000 TPA</td> </tr> <tr> <td>4. M/s Arunachalaa Enterprises - Karur – 60000 TPA</td> </tr> <tr> <td>5. M/s Quality Business Sollutions - Ambattur - 3300 TPA</td> </tr> <tr> <td>6. M/s Arunachala Enterprises - Pudukkottai - 48300 TPA</td> </tr> <tr> <td>Recyclable/Utilizable Waste Disposal for the period 2022-23</td> </tr> <tr> <td>Recyclable Hazardous Waste generation (T/A)</td> <td>Utilizable Hazardous Waste Generation (T/A)</td> </tr> <tr> <td style="text-align: center;">4,15,628</td> <td style="text-align: center;">5,63,179</td> </tr> </table>		1. M/s GEPIL- Vellore – Authorized capacity – 50000 TPA	2. M/s Sandhiya Enviro Tech System – Villupuram- 24216 TPA	3. M/s Cheenu Enviro Management – Coimbatore – 45000 TPA	4. M/s Arunachalaa Enterprises - Karur – 60000 TPA	5. M/s Quality Business Sollutions - Ambattur - 3300 TPA	6. M/s Arunachala Enterprises - Pudukkottai - 48300 TPA	Recyclable/Utilizable Waste Disposal for the period 2022-23	Recyclable Hazardous Waste generation (T/A)	Utilizable Hazardous Waste Generation (T/A)	4,15,628	5,63,179	-	Nil	The hazardous waste recycled and utilized has been increased from the year 2015-16 till this financial year 2022-23 from 67% to 83%.
1. M/s GEPIL- Vellore – Authorized capacity – 50000 TPA															
2. M/s Sandhiya Enviro Tech System – Villupuram- 24216 TPA															
3. M/s Cheenu Enviro Management – Coimbatore – 45000 TPA															
4. M/s Arunachalaa Enterprises - Karur – 60000 TPA															
5. M/s Quality Business Sollutions - Ambattur - 3300 TPA															
6. M/s Arunachala Enterprises - Pudukkottai - 48300 TPA															
Recyclable/Utilizable Waste Disposal for the period 2022-23															
Recyclable Hazardous Waste generation (T/A)	Utilizable Hazardous Waste Generation (T/A)														
4,15,628	5,63,179														

Hazardous Waste recycled through recyclers (Authorized capacity – 7,71,604.55 T/A)	Hazardous waste Utilized through utilizer, pre processor & Co processing in cement plant - (Authorized capacity – 21,17,462.14 T/A)			
HOWM Rules 16	Treatment, storage and disposal facility for Hazardous and Other Wastes. (1) The State Government, occupier, operator of a facility or any association of occupiers shall individually or jointly or severally be responsible for identification of sites for establishing the facility for treatment, storage and disposal of the hazardous and other waste in the State.			
Current Status		Desirable Level	Gap	Proposal for attending gap
There are 3 Nos of TSDF facilities located in Tamilnadu.		-	-	1. Closure direction issued to the TSDF facility of M/s Re sustainability IWM Solutions Limited, Undurumikidakulam, Mukkulam Village, Thiruchuli Taluk, Virudhunagar District due to the operation of the unit even after the expiry of valid HW authorization. It is not in operation since 31.03.2023 2. The cumulative hazardous waste disposed at TSDF, Gummidipoondi till the end of financial year 2022-23 is 7,32,702 Tons and 1,44,484 at CHWTSDF, Virudhunagar.
1. M/s. Re sustainability IWM Solutions Limited, Export Promotion Industrial Park (EPIP), SIPCOT Gummidipoondi, Tiruvallur District (Permitted capacity for Land fill – 100000 T/A & Incineration – 8000 T/A) (capacity 1.5 T/hr)				
Land fillable Hazardous Waste Disposal for the period 2022-23				
Land fillable HW received (T)	Land fillable Hazardous Waste Disposal (T)	Incinerable HW received (T)	Incinerable Hazardous Waste Disposal (T)	
76696 MT	77521 MT	4992	5127	
1. M/s. Re sustainability IWM Solutions Limited, Undurumikidakulam, A Mukkulam Village, Thiruchuli Taluk, Virudhunagar District (Permitted capacity Land fillable – 240000 T/A)				
Land fillable Hazardous Waste Disposal for the period 2022-23				
Land fillable HW received (T)	Land fillable Hazardous Waste Disposal (T)			
18,679 MT	18,678.66 MT			
2. M/s. Re sustainability IWM Solutions Limited, S.F. No. Plot No. 141 A, 142 and 143. SF No. 726 (Part), BALETHOTTAM village, Pochampalli Taluk and Krishnagiri District (Permitted capacity for landfill – 90885TPA).				

HOWM Rules 17, 18,19	17. Packaging and Labelling. - 18. Transportation of hazardous and other wastes 19. Manifest system (Movement Document) for hazardous and other waste to be used within the country only.-			
Current Status		Desirable Level	Gap	Proposal for attending gap
Packaging, labelling & manifest system is followed by Hazardous waste generators/TSDF/Recyclers/ processor TSDF vehicles are fitted with GPS arrangement			Nil	TNPCB is monitoring the transportation of hazardous & other waste & manifest system.
HOWM Rules 20	Records and returns			
Current Status		Desirable Level	Gap	Proposal for attending gap
TNPCB has identified 4266 hazardous wastes generating units and the units are maintaining in Form – III & form – IV as per the Rules & annual returns are submitted to CPCB within the stipulated time.		-	Nil	TNPCB has submitted annual inventory for the year 2022-23 on 29 th September 2023.
HOWM Rules 23	Liability of occupier, importer or exporter and operator of a disposal facility (1) The occupier, importer or exporter and operator of the disposal facility shall be liable for all damages caused to the environment or third party due to improper handling and management of the hazardous and other waste. (2) The occupier and the operator of the disposal facility shall be liable to pay financial penalties as levied for any violation of the provisions under these rules by the State Pollution Control Board with the prior approval of the Central Pollution Control Board.			
Current Status		Desirable Level	Gap	Proposal for attending gap
The calculation of Liability & Environmental Compensation is being followed as per CPCB guidelines. During the year 2022-23 the following unit was levied with Environmental violation of HOWM Rules, 2016.		-	Nil	-
Name of the unit		Financial penalty levied in Rs.	Financial penalty remitted in Rs.	
M/s ARPE Lubricants, SF no. 406, Plot No. 94, SIDCO Industrial Estate, Malumichampatty Village, Madukkarai Taluk, Coimbatore District.		Rs. 6 Lakhs under Section 5 of EPA vide proc dated: 28.03.2023.	Rs.6 Lakhs vide DD No. 675598 dt: 16.3.2023.	
M/s Shree Balaji Chem Industries, Plot No. 94, 95, Industrial Estate, SF No.274, Kakkalur Village, Tiruvallur Taluk, Tiruvallur District		Rs. 5 Lakhs under Section 5 of EPA vide proc dated: 11.12.2023.	Rs.5 Lakhs vide DD No. 706102 dt: 20.12.2023.	

Thematic Area: 5. Compliance to E-Waste Rules

Thematic Area:3(V)	Compliance of E-Waste Management Rules, 2022		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>The MoEF&C1C, GoI notified the E-Waste Management Rules, 2016 on 23rd March 2016. According to the TNPCB's annual report for the financial year 2022-2023 under the said Rules, 35153.360 Tonnes of E-Waste were collected, and 34212 Tonnes of materials were recovered from that E-Waste. The dismantlers/recyclers kept the difference amount of 941.36 Tonnes e-waste for further processing.</p>	<p>Inventorisation of e-waste. Implementation of programmes to encourage environmentally sound recycling.</p>		<ul style="list-style-type: none"> • TNPCB addressed the Industries department, Housing and Urban Development Department to allocate land in existing and upcoming industrial area for environmentally sound management of E-Waste.
<p>Now the MoEF&CC, GoI has revised the E-Waste (Management) Rules, 2016 and notified the E-Waste (Management) Rules, 2022 in 2nd November, 2022 and the same is in force since 1st April, 2023.</p>	<p>All the Producers, Manufacturer, Recycler and Refurbisher shall register with CPCB through Online Portal.</p>	<ul style="list-style-type: none"> • The registration module has been made live for Producers, Manufacturers, Recyclers and Refurbishers and TNPCB is in the process of on-boarding said stakeholders in the EPR Portal 	<ul style="list-style-type: none"> • TNPCB, Instructed all the producers, Recyclers registered under the EWM Rules, 2016 to migrate and register under the new EWM Rules, 2022."
<p>TNPCB instructed all the DEEs/JCEEs(M) to implement the E-Waste Management Rules, 2022 in their respective jurisdiction.</p>	<p>Monitoring and compliance of Extended Producer Responsibility</p>		

Thematic Area:3(V)	Compliance of E-Waste Management Rules, 2022		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>All the Local Bodies were instructed to comply with the EWM Rules, 2022.</p> <p>Stakeholders meeting conducted on 25.01.2023 along with all the DEEs/JCEEs(M) for effective implementation.</p> <p>All the DEEs, JCEEs(M) were directed to organize awareness campaign and to distribute the approved pamphlets.</p>	<p>as directed by Central Pollution Control Board.</p> <p>Conduct random inspection of recycler and refurbisher and monitoring recycling capacity utilization.</p>		

Thematic Area: 6. 351 Polluted River Stretches in the Country (10 rivers in Tamil Nadu)

Thematic Area : 3 (VI)		Polluted River Stretches in the Country		
Thematic Area : 3 (VI)		Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021		
Current Status		Desirable Level	Gap	Proposal for attending gap
<p>In Tamil Nadu, CPCB has identified 10 Nos. of Polluted River Stretches based on Bio-Chemical Oxygen Demand (BOD) values and categorized as five priorities. (CPCB desired Levels: BOD < 3.0mg/l, DO > 5.0mg/l, Faecal Coliform < 500MPN/100ml).</p> <p>1.River Sarabanga (Thathayampatti to Konagapadi Stretch-15 Kms) - Priority-II (BOD 20 to 30 mg/l).The CPCB data as on Sep-2018 the level of BOD is 78.0 mg/l. Current status as on During May 2024 no flow in the river.</p> <p>2. River Thirumanimutharu (Salem to Papparapatti Stretch-15Kms) – Priority-I (BOD > 30 mg/l), The CPCB data as on Sep-2018 the level of BOD is 190.0 mg/l Current status as on Current status as on May 2024, the values of BOD - 80 mg/L, DO – Nil mg/L and FC - 1553 MPN/100 ml.</p> <p>3. River Vasista (Manivilundhan to Thiyaganur Stretch-10Kms) – Priority-I (BOD > 30 mg/l), The CPCB data as on Sep-2018 the value of</p>		<p>To bring the river water fit for bathing standards (Class-B standard) Bio-chemical Oxygen Demand (BOD) <3.0 mg/l is to be achieved.</p>	<p>There is a gap in satisfying the water quality standards of Rivers Sarabanga, Tirumanimutharu, Vasista, Cooum and Adyar. The water quality will be maintained when e-flow is maintained and action plan is completed. In respect of rivers Cauvery, Bhavani, Tamiraparani, Palar and Amaravathi the bathing standards of CPCB is satisfied.</p>	<ul style="list-style-type: none"> ▪ The Hon'ble NGT (PB) in O.A No. 673 NGT/2018 ordered to rejuvenate the Polluted River Stretches by preparing action plans. ▪ RRC meeting was convened latest on 13.05.2024 by the Chief Secretary to Government, along with the concerned line

Thematic Area : 3 (VI)	Polluted River Stretches in the Country Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021			
	Current Status	Desirable Level	Gap	Proposal for attending gap
	<p>BOD is 675.0 mg/l. Current status as on May 2024, the values of BOD – 96 mg/L, DO – Nil mg/L and FC - 4083 MPN/100 ml.</p> <p>4. River Cauvery (Mettur to Mayiladuthurai Stretch-200Kms) - Priority-III (BOD 10 to 20 mg/l), The CPCB data as on Sep-2018, the value of BOD is 3.3 to 32.0 mg/l. Current status as on May 2024, the values of BOD is 2.4 to 3.6 mg/L, DO - 5.3 -6.8 mg/L and FC - 17 – 140 MPN/100 ml.</p> <p>5. River Bhavani (Sirumugai to Kalingarayan Stretch-60Kms) - Priority-V (BOD 3 to 6 mg/l), The CPCB data as on Sep-2018, the BOD is 3.3 to 6.6 mg/l. Current status as on May 2024, the values of BOD 1.9 to 2.9 mg/L, DO - 5.4 – 6.8 mg/L and FC - 19 – 94 MPN/100 ml.</p> <p>6. River Thamirabarani (Pappankulam to Arumuganeri Stretch-80Kms) - Priority-IV (BOD 6 to 10 mg/l), The CPCB data as on Sep-2018 BOD is 3.1 to 4.0 mg/l. Current status as on May 2024, the values of BOD 2.0 to 3.0 mg/L, DO - 5.1 - 6.6 mg/L and FC - 2 - 48 MPN/100 ml.</p> <p>Action plans for six polluted river stretches were submitted to CPCB and approved.</p> <ul style="list-style-type: none"> ▪ As per the Hon'ble NGT (PB) order, the action plans for six Polluted 		<p>Cooum and Adyar Polluted River Stretches are non-perennial River Stretches and hence not meeting the standards. However, the Government of Tamil Nadu is rejuvenating Cooum, Adyar and Buckingham Canal at a cost of Rs.2371 crores. The works are under progress.</p>	<p>departments and requested to follow up the implementation of action plans proposed and also to furnish the action taken reports.</p> <ul style="list-style-type: none"> ▪ As instructed by the Chief Secretary, Government of Tamil Nadu the 1st Committee meeting of Polluted River Stretches Chaired by the Member Secretary, Tamil Nadu Pollution Control Board was held on 04.07.2024 to review the implementation of Action Plans for the Polluted River Stretches." ▪ The District Level Committees have been formed to monitor and review the action plans proposed by the concerned line departments at Districts level as per the Hon'ble NGT Order in O.A. No. 606/2018 dated 23.04.2019.

Polluted River Stretches in the Country		Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021		
Thematic Area : 3 (VI)	Current Status	Desirable Level	Gap	Proposal for attending gap
	<p>River Stretches were hosted in the TNPCB website after the approval of RRC vide web link http://www.tnpcb.gov.in/polluted-riverstretches.php and the same has been communicated to the CPCB."</p> <ul style="list-style-type: none"> ▪ Action taken reports on the action plans for the six polluted river stretches for the period up to May 2024 were received from the line departments concerned, compiled and furnished to CPCB and Govt. of Tamil Nadu. ▪ As per the Hon'ble NGT (PB) order the water quality data for the six polluted river stretches are being hosted in the TNPCB website on regular basis from 23.04.2019 onwards vide web link http://www.tnpcb.gov.in/polluted-riverstretches.php and the same have been communicated to the CPCB. ▪ Executive summary for the approved action plans under priority-I polluted river stretches (River Sarabanga, Vasista, Thirumanimutharu and Cauvery) have been submitted to the CPCB vide TNPCB letter No. TNPCB/DD(L)/F.No.6849/PRS-ES/2016 dated: 27/12/2019 and mail dated 02/01/2020. For balance Polluted River Stretches announced during 2022 viz., Amaravathi, Palar, Cooum and Adyar 			<ul style="list-style-type: none"> ▪ Government of Tamil Nadu have initiated a project in the name of "Nadanthai Vaazhi Cauvery" in Tamil Nadu which is a massive rejuvenation programme for the River Cauvery and its Tributaries including the Rivers Sarabanga, Thirumanimutharu and Bhavani and Detailed Project Report (DPR) is prepared and submitted to GOI for funding. For the above project, PWD is the co-ordinating agency.

Thematic Area : 3 (VI)	Polluted River Stretches in the Country		
Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021			
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Action Plans have been prepared for Amaravathi & Palar and are under implementation.</p> <ul style="list-style-type: none"> ▪ Government of Tamil Nadu have directed the TNPCB/ Public Works dept. to furnish performance guarantee of Rs. 10 crore for the six polluted river stretches and also to pay compensation of Rs. 4 crore to the CPCB (as per Hon'ble NGT order) on behalf of State of Tamil Nadu. ▪ "Hon'ble NGT (PB), New Delhi has issued direction vide order dated 06/12/2019 in O.A. No. 673/2018 regarding execution and completion of Rejuvenation of Polluted River Stretches works in the States and also to install the monitoring mechanisms for the Rejuvenation of Polluted River Stretches. <p>- RRC meeting was held on 13.05.2024 under the Chairmanship of Chief Secretary to Government, Municipal Administration and Water Supply Department along with the RRC members and line departments concerned to review the action plans for the rejuvenation of Rivers"</p>			<ul style="list-style-type: none"> ▪ The TNPCB has approved vide B.P. No.80 dated: 04/12/2019 for furnishing the performance guarantee of Rs. 10.00 Crore and to remit the compensation/penalty of Rs. 4.00 Crore to the CPCB by utilizing Board's fund after getting the Government Order. The Government of Tamil Nadu has directed TNPCB to remit the performance guarantee of Rs. 10 crore and the same shall be reimbursed by the WRD. The WRD commitment is awaited. The Environmental compensation of Rs. 4 crore is to be paid to

Polluted River Stretches in the Country		Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021		
Thematic Area : 3 (VI)	Current Status	Desirable Level	Gap	Proposal for attending gap
	<ul style="list-style-type: none"> ▪ The action plans for all the Polluted River stretches have been approved. Also, the task team recommended that the Government of Tamil Nadu may file an affidavit in the Hon'ble NGT with supporting data for exemption or deletion of river stretch from the list. ▪ National Mission for Clean Ganga (NMCG), Ministry of Jal Shakti, New Delhi is conducting quarterly review meeting with the line department officials concerned of the State Government through video conference on the progress of rejuvenation works and assessment of Polluted River Stretches as per the Hon'ble NGT (PB) order dated 06.12.2019 in O.A. No. 673/2018 and last meeting was conducted on 11.01.2024 ▪ The assessment of Polluted River Stretches in Tamil Nadu was assessed by the Central Monitoring Team members from National Mission for Clean Ganga (NMCG, Ministry of Jal Shakti), National River Conservation Directorate (NRCD) and Central Pollution Control Board (CPCB) with a preliminary meeting with the concerned line departments on 02.03.2020 at TNPCB, Guindy, 			<p>CPCB.</p> <ul style="list-style-type: none"> ▪ The Tamil Nadu Pollution Control Board has proposed to provide online Water Quality Monitoring Stations in important Rivers Viz., Kaligarayan Canal, Bhavani, Cauvery, Noyyal and Thenpeninai. ▪ On continuous persuasion and efforts of Tamil Nadu Pollution Control Board, the priorities of the Polluted River Stretches have been shifted to lower priority class by the Central Pollution Control Board. ▪ The Member Secretary, CPCB, Delhi has been addressed from this office letters dated: 14.9.2022, 2.2.2023, 20.2.2023 and 27.05.2024 to delist certain Polluted River Stretches.

Thematic Area : 3 (VI)	Polluted River Stretches in the Country Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Chennai and the team inspected the polluted river stretches on 03.03.2020 along with the line departments officials as per the Hon'ble NGT (PB) order dated 06.12.2019 in O.A. No. 673/2018.</p> <ul style="list-style-type: none"> ▪ The Central Monitoring Team has furnished its observations and recommendations after the assessment of Polluted River Stretches in Tamil Nadu. ▪ Based on the Central Monitoring Team observations and recommendations, details were requested from the line departments concerned vide TNPCB letter dated 21.05.2020 & 12.06.2020 and the details received were consolidated and furnished to the Central Monitoring Team, NMCG, Ministry of Jal Shakti vide letter dated 30.06.2020. ▪ Letters from TNPCB dated: 14.09.2022, 02.02.2023, 20.02.2023 and 27.05.2024 have been submitted to CPCB to delist all the Polluted River Stretches from the polluted river stretches list and the CPCB order is awaited. ▪ Central Monitoring committee (CMC) meeting is being conducted 			<ul style="list-style-type: none"> ▪ Qty. of sewage generated – 4001.02 MLD ▪ Treatment capacity (STP) - 2366.93 MLD <p>Treatment capacity (FSTP) - 1.109 MLD Sewage being treated through Alternate Technology: 1094.75 MLD Under Construction STPs & FSTPs: 250.35 MLD Gap - 475.501 MLD"</p> <ul style="list-style-type: none"> ▪ As per action plan, all the works are being

Polluted River Stretches in the Country		Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021		
Thematic Area : 3 (VI)	Current Status	Desirable Level	Gap	Proposal for attending gap
	<p>quarterly to review the progress made on existing STPs, STPs under construction, proposed STPs, management of municipal solid wastes, CETPs, etc., on the matter of rejuvenation of Polluted river stretches under the Chairmanship of Secretary, Department of Water Resources, RD&GR, Ministry of Jal Shakti, New Delhi through video conference. The monthly progress report upto May 2024 has been submitted to NMCG- Ministry of Jal Shakti with a copy to the CPCB.</p> <ul style="list-style-type: none"> ▪ The Chief Secretary to Government, reviewed along with the RRC members and line departments concerned regarding progress of action taken on Polluted River Stretches on 13.05.2024 for the rejuvenation of Rivers regarding STPs, MSW treatment facilities, maintaining the water quality and rejuvenations along the PRS. The CS instructed the line dept. officials to speed up the implementation works. ▪ 18th Central Monitoring Committee meeting was held on 11.01.2024 under the Chairmanship of Secretary, Ministry of Jal Shakti with discussion on Sewage treatment plants, Municipal Solid waste 			<p>carried-out. Action to bridge the gap between generation and treatment of sewage and MSW is given below</p> <ul style="list-style-type: none"> ✓ Sewage: Proposed – 47 STPs to bridge the gap ✓ MSWs Generation: 15,150 TPD Treatment Facility: 10,283 TPD Under Construction: 1,281 TPD ▪ Proposed CETPS: 10 Nos. of 41 MLD capacity CETPs are proposed at Namakkal and Erode districts for textile clusters. The approved DPRs for the above CETPs have been forwarded to GOI for funding. No unit is in operation either without connected with CETPs or without individual ETPs. Reuse of treated Waste water - 81 MLD <p>PWD(WRD) Rain Water Harvesting: Existing – 125 Nos</p>

Thematic Area : 3 (VI)	Polluted River Stretches in the Country		
Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021			
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Management, Industrial Pollution, Common Effluent Treatment Plants, Hazardous Waste Management, Biomedical Waste Management and reuse of treated waste water, rejuvenation works by Water Resources Department, etc. were reviewed.</p> <ul style="list-style-type: none"> ▪ The agenda discussed in the meeting are: Status of implementation of Action plan by States were as follows: a) STPs / CETPs with respect to projects awaiting sanction or in DPR stages (incremental progress in respect of projects). b) Status of existing STPs (related to functioning, compliance and action taken to restore the functioning of existing STPs). c) Solid waste management interventions. d) Rejuvenation works by Water Resources Department such as Ground water Quality & management e-flows, sedimentation, desilting etc. e) Action plan management of pollution in coastal areas / States. ▪ The Hon'ble NGT issued final directions as below in the matter of O.A 673 of 2018 dated: 22.02.2021. 		<p>Industrial Pollution: No Industrial discharge into the polluted River Stretches.</p> <p>"HW - No gap BMW - No gap WRD is to provide Rain Water</p>	<p>Under Construction – 14 Nos Proposed – 56 Nos Note: 683 Nos. of illegal packaged drinking water firms were closed by Hon'ble Madras High Court. The industries are still under closure.</p> <ul style="list-style-type: none"> ▪ All the line departments have been addressed from this office continuously to complete the works as per the action plans. The subject is being reviewed by the Principal Secretary, Environment and Forests Department, Government of Tamil Nadu and Chief Secretary to Government. ▪ To comply the NGT directions all steps are being taken in the State by means of continuous review of the progress of the

Thematic Area : 3 (VI)	Polluted River Stretches in the Country Hon'ble NGT (PB) order in O.A No. 673/2018 dated 20.09.2018, 19.12.2018, 08.04.2019,29.11.2019, 22.06.2020, 21.09.2020 & 22.02.2021		
Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> ▪ The MoJS may devise a National River Rejuvenation Mechanism (NRRM) for effective implementation of Action plans to improve the polluted river stretches & monitoring for control of pollution and rejuvenation of all Polluted River Stretches. ▪ The Chief Secretary must work in mission mode for strict compliance of time lines of commencing ongoing and new projects. The Chief Secretary may personally monitor progress at least once in every month and NRRM in every quarter The Chief Secretary is accountable for failure to comply with the direction for payment of compensation under Sections 25, 26, 28 and 30 of the NGT Act, 2010. The Hon'ble NGT Directions have been communicated to the Government and line departments for taking necessary action early." 		<p>Harvesting structures." Ground Water Regulation: 683 Nos. of illegally operated packaged drinking water units closed.</p>	<p>works and speedy implementation.</p> <ul style="list-style-type: none"> ▪ The River Rejuvenation Committee is monitoring the implementation. ▪ Every Quarter the Central Monitoring Committee meeting is conducted. The 18th Central Monitoring Committee meeting was held on 11.01.2024. ▪ The line departments have been addressed during June 2023, September 2023 and 09.01.2024, 24.01.2024, 15.02.2024, 08.04.2024, 14.04.2024, 14.05.2024 & 04.07.2024 by Tamil Nadu Pollution Control Board to complete the works as per the River Action Plans."

Thematic Area: 7. 131 Non-attainment Cities

Thematic Area :3(VIII)		Status of Non –attainment cities (Chennai, Madurai, Trichy and Thoothukudi)												
Current Status (PM ₁₀ - µg/m ³)	Desirable level (<PM ₁₀ - 60 µg/m ³)	Gap		Proposal for attending gap										
<ul style="list-style-type: none"> ▪ As per the directions of the Hon'ble National Green Tribunal, Action plan for Non-Attainment City (NACs)-Thoothukudi was approved by CPCB on 16.5.2019. The short-term action points up to November-2019 were completed and actions are being taken to implement the action plan with the coordination with other stake holders. City action plan of Chennai, Madurai and Trichy are approved by CPCB on 7.01.2022. ▪ As per the Hon'ble NGT order OA 681 of 2018 dated 21.08.2020, status of the following directions with respect to state are given below. ▪ Direction IV- PGRP is in operational for all the 4 NACs of Tamil Nadu. ▪ Direction V & VI - the CPCB approved City Action Plan of all the 4 NACs is under implementation." ▪ Direction VII - the microplan / annual action plan of Thoothukudi, Madurai, Trichy and Chennai for the FY 2022-23 has been submitted in the PRANA portal developed by CPCB. The micro plan of Trichy and Chennai has been conditional approved on 12.12.2022 and for those of Thoothukudi and Madurai is under revision. ▪ Direction XI- ERS for Thoothukudi has been developed as part of City Action Plan and the same has been approved by CPCB on 16.5.2019 and Chennai, Trichy and Madurai have been approved on 07.01.2022. 	<p>Reduction of PM₁₀ in Thoothukudi town, Trichy UA, Madurai UA and Chennai UA.</p>	<p>The current annual values of PM₁₀ for the year ended (FY 2023-24 till Jan) is tabulated below.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Cities</th> <th>PM₁₀ µg/m³ (FY 2022-23)</th> </tr> </thead> <tbody> <tr> <td>Chennai U.A</td> <td>56</td> </tr> <tr> <td>Madurai U.A</td> <td>66</td> </tr> <tr> <td>Trichy U.A</td> <td>46</td> </tr> <tr> <td>Thoothukudi</td> <td>63</td> </tr> </tbody> </table>		Cities	PM ₁₀ µg/m ³ (FY 2022-23)	Chennai U.A	56	Madurai U.A	66	Trichy U.A	46	Thoothukudi	63	<p>As per the direction I, the CPCB has sanctioned EC fund for the establishment of CAAQM station in Trichy.</p> <p>Under XVFC Grant-in – Aid for the air quality improvement Chennai, Madurai and Trichy has proposed additional CAAQM station to meet required number of monitoring station as per the guidelines of CPCB with respect to the population. The CPCB has advised the ULBs not to spend the funds grant under central Scheme for the procurement of CAAQM until further order issued."</p> <p>As per the direction II, Carrying capacity and Source Apportionment study of Thoothukudi is in progress by Indian Institute of Technology, Madras under the EC fund of CPCB and NCAP fund. The study on Carrying capacity and Source Apportionment study of Chennai, Trichy and Madurai is completed and the report is under preparation by IIT-Madras.</p> <p>As per the direction III, The shifting, prohibiting and regulating activities beyond carrying capacity will be decided based on the SA and CC studies. In this regard as per the direction of MoEF&CC and CPCB. The CPCB has identified the Institute of Repute namely IIT Madras for cities Chennai, Madurai, Trichy and Thoothukudi for the technical support.</p>
		Cities	PM ₁₀ µg/m ³ (FY 2022-23)											
		Chennai U.A	56											
		Madurai U.A	66											
		Trichy U.A	46											
Thoothukudi	63													
		<p>The values of Chennai U.A, Madurai U.A and Thoothukudi for the year 2022-23 are still above the</p>												

Thematic Area :3(VIII)	Status of Non –attainment cities (Chennai, Madurai, Trichy and Thoothukudi)		
Current Status (PM ₁₀ - µg/m ³)	Desirable level (<PM ₁₀ - 60 µg/m ³)	Gap	Proposal for attending gap
<p>▪ The direction of Hon'ble NGT order 681/2018 dated 8.04.2021 as follows</p> <p>i. Constitution of an eight –member National Task Force (NTF) to be headed and coordinated by the Secretary MoEF&CC with nominees not below the rank of Joint secretaries of Ministries from Housing and Urban Development, Road Transport, petroleum, Power, Agriculture, Health and Chairman, CPCB with a view to monitor remedial steps to improve the status of air quality in NACs consistent with the action plans already prepared and approved by the Expert Committee and directions of this tribunal"</p> <p>a) Monitor compliance of noise control norms</p> <p>b) Monitor enforcement of laid down air quality standards beyond NACs identified cities</p> <p>ii. NTF may hold its first meeting within one month and thereafter evolve mechanism for monitoring by quarterly meeting with Chief Secretaries of concerned States/UTs"</p> <p>iii. Monitoring by NTF may be with reference to the action plans of 131 NCAs. The components include installation of monitoring stations, Completion of CC and SA studies, shifting, prohibiting and regulating activities beyond carrying capacity, effectiveness of PGRPs timelines for execution of the action plans and recovery compensation for delay, addressing gap in control. Noise pollution, afforestation drives utilizing CAMPA funds, effective implementation of ERS, revamping of PCBs/PCCs and other</p>		<p>annual standard value of 60 microgram/cubic meter. Whereas PM10 values of Trichy U. A. are well within the ambient air quality standards.</p>	<p>The Corporation of Thoothukudi is taking necessary steps in coordination with the other stake holder departments for the reduction in PM10 pollution. TNPCB has transferred a sum of Rs 3.06 Crore as grant-in-aid to Thoothukudi Municipal Corporation for the implementation of City Action Plan components for the FY 2021-22 and subsequently MoEF&CC has released a sum of Rs 4.13 Cr for the FY 2022-23 and the same has been transferred to Thoothukudi Municipal Corporation for the implementation of CPCB approved City Action Plan/ Microplan components.</p> <p>Thoothukudi Corporation has submitted the annual microplan for the FY 2023-24 in the PRANA portal developed by CPCB and approved the same. Based on the recommendation. of CPCB Steering committee, 100% fund for the FY 2023-24 under NCAP is allocated and further MOEFCC has released Rs.6.215 crore for the air quality improvement</p> <p>The fifteenth finance Commission has released a sum of 181 crores, 31 crores and 21 crores as grants to million plus cities for the year 2020-21 for the improvement of air quality for Chennai, Madurai and Trichy cities respectively in Tamil Nadu. The city level performance of the million plus cities for the FY 2020-2021 was assessed by the State Level Implementation Committee and the report has been submitted to CPCB in the month of February 2022.</p>

Thematic Area :3(VIII)		Status of Non –attainment cities (Chennai, Madurai, Trichy and Thoothukudi)	
Current Status (PM ₁₀ - µg/m ³)	Desirable level (<PM ₁₀ - 60 µg/m ³)	Gap	Proposal for attending gap
<p>monitoring mechanism, remediation of legacy waste (Biomedical, plastic and e-waste, dust control, Public awareness, and community involvement programme and setting up of data grids on all levels.</p> <p>iv. NTF may also evolve and oversee parameters for interest ranking of success of remedial action for 124 NACs and other air polluted area where air quality is poor and above.</p> <p>v. MoEF &CC/CPCB may consider setting up and periodically updating National Environmental Data Grid (NEDG) linked to the State Environment Data Grids (SEGs) District Environment Data Grids (DEDGs) and further link to available portals like online air quality, Sameer and monitoring station</p> <p>vi. The Chief Secretaries of all States/ UTs may continue to monitor progress in execution of action plans at State Level.</p> <p>The application is disposed off.</p> <p>As per the Direction III of Hon'ble NGT order 681 of 2018, dated 08.04.2021, the ULBs of NACs are following the direction III"</p> <p>"a. In CEPI area, the industries are converted to cleaner fuels and TNPCB regularly monitoring the air pollution status.</p> <p>b. On international blue sky day, the non-attainment cities Chennai, Madurai, Trichy, and Thoothukudi has convened public awareness and the details are uploaded in the PRANA portal."</p> <p>"Identification of hot spots by TNPCB and action plan</p>			<p>"The Fourth Steering Committee convened by MoEF &CC released fund for the FY 2021-2022 of Rs. 91 Cr, 22.35 Cr, and 18.35Cr for the cities Chennai, Madurai and Trichy respectively. Trichy and Madurai received an incentive grant of Rs 7.35 crore each which is included in the total grant for the FY 2021-22.</p> <p>Based on the performance assessment by State Level Monitoring Committee, Department of Expenditure (DoE) has released a grant-in-aid fund of Rs 95 Crore for Chennai, 19.09 Crore for Madurai and 11 Crores for Trichy for the implementation of CPCB approved City Action Plan. Madurai has received an incentive grant of Rs 3.09 crore which is included in the total grant for the FY 2022-23."</p> <p>MoU between Million plus ULBs (Chennai, Trichy and Madurai), State Government and MoEF&CC has been signed on 04.02.2022 for the effective implementation of CPCB approved City Action Plan as per the "Operational guidelines for implementation of Recommendations on Urban Local Body Grants" for the implementation on ambient air quality component in the Million plus Challenge fund for Million Plus Cities/ Urban Agglomerations under XVFC Grant</p> <p>Based on the performance assessment of PM10 reduction by CPCB 100% fund for Tiruchirapalli and 75% fund for Chennai and Madurai under XV-FC is recommended as per the guidelines of Department of Expenditure (DoE).</p>

Thematic Area :3(VIII)	Status of Non –attainment cities (Chennai, Madurai, Trichy and Thoothukudi)		
Current Status (PM ₁₀ - µg/m ³)	Desirable level (<PM ₁₀ - 60 µg/m ³)	Gap	Proposal for attending gap
Chennai - 18 No Trichy - 6 No Madurai - 6 No Thoothukudi - 6 No"			<p>"Chennai and Madurai cities are yet to receive the grant fund for the FY 2023-24.</p> <p>Meanwhile Chennai received an incentive of Rs.20 Crore for the FY 2022-23 in June, 2024.</p> <p>Trichy received the funds of Rs.12 Crore for FY 2023-24 on March 2024"</p> <p>Indian Institute of Technology Madras (IoR- Institute of Repute under NCAP) has prepared the Hotspots action plan of Chennai, Trichy Madurai and Thoothukudi the same has been approved by District Level implementation Committee Chairman and uploaded in the PRANA portal of CPCB by ULBs.</p>

Thematic Area: 8. 100 Industrial Clusters

Thematic Area :4(IV)			Status of Comprehensive Environmental Pollution Index																																																																																																																			
Current Status			Desirable Level	Gap			Proposal for attending gap																																																																																																															
CEPI Index evolved by CPCB in 2018:			Industrial areas having CEPI score >80 considered as Critically Polluted Industrial Area and if CEPI score is >70 and <80 considered as Severely Polluted Industrial Area. The CEPI score shall be reduced below 60.	Name of Polluted Industrial Area (PIAs) in Tamil nadu	CEPI Score	Desirable Limits	Based on the CEPI score of 2018 assessed by CPCB, continuous efforts were taken by TNPCB during the year 2018-2019 2019 -2020, 2020-21 for reducing the CEPI score with regard to Land, Air & Water Environment.																																																																																																															
SI.No	Name of Polluted Industrial Area (PIAs) in Tamilnadu	*CEPI Score					The CEPI score for the Polluted Industrial Area (PIAs) of Tamil Nadu for the period 2018-2021 evaluated on Environmental Quality monitoring by third party NABL accredited laboratories.																																																																																																															
10	Manali	84.15		Manali	84.15	<60	<table border="1"> <thead> <tr> <th colspan="10">CEPI score worked out by TNPCB based on study results.</th> </tr> <tr> <th rowspan="2">Sl.No.</th> <th rowspan="2">Location of industrial clusters</th> <th>Pre</th> <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> <th>Pre</th> <th>Post</th> <th>Post</th> </tr> <tr> <th>monsoon 2019</th> <th>monsoon 2020</th> <th>monsoon 2020</th> <th>monsoon 2021</th> <th>monsoon 2021</th> <th>monsoon 2022</th> <th>monsoon 2022</th> <th>monsoon 2023</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Manali</td> <td>26.26</td> <td>56.57</td> <td>32.03</td> <td>40.604</td> <td>32.032</td> <td>30.016</td> <td>31.204</td> <td>30.01</td> </tr> <tr> <td>2.</td> <td>Ranipet</td> <td>28.13</td> <td>22.18</td> <td>22.18</td> <td>21.792</td> <td>21.074</td> <td>22.176</td> <td>22.048</td> <td>18.37</td> </tr> <tr> <td>3.</td> <td>Tiruppur</td> <td>24.32</td> <td>38.07</td> <td>46.99</td> <td>29.49</td> <td>32.398</td> <td>32.398</td> <td>27.795</td> <td>42.14</td> </tr> <tr> <td>4.</td> <td>Mettur</td> <td>20.77</td> <td>21.28</td> <td>24.18</td> <td>27.48</td> <td>21.39</td> <td>24.175</td> <td>23.02</td> <td>23.75</td> </tr> <tr> <td>5.</td> <td>Thootukudi</td> <td>44.25</td> <td>44.95</td> <td>42.17</td> <td>41.96</td> <td>41.7</td> <td>41.7</td> <td>24.383</td> <td>25.77</td> </tr> <tr> <td>6</td> <td>Coimbatore</td> <td>8.6</td> <td>28.29</td> <td>35.51</td> <td>35.00</td> <td>35.21</td> <td>35.21</td> <td>35.23</td> <td>35.26</td> </tr> <tr> <td>7.</td> <td>Cuddalore</td> <td>26.38</td> <td>31.12</td> <td>31.12</td> <td>36.36</td> <td>37.17</td> <td>36.72</td> <td>31.29</td> <td>36.35</td> </tr> <tr> <td>8.</td> <td>Erode</td> <td>25.02</td> <td>20.27</td> <td>50.69</td> <td>49.73</td> <td>49.71</td> <td>49.71</td> <td>49.71</td> <td>39.04</td> </tr> </tbody> </table>				CEPI score worked out by TNPCB based on study results.										Sl.No.	Location of industrial clusters	Pre	Pre	Post	Pre	Post	Pre	Post	Post	monsoon 2019	monsoon 2020	monsoon 2020	monsoon 2021	monsoon 2021	monsoon 2022	monsoon 2022	monsoon 2023	1.	Manali	26.26	56.57	32.03	40.604	32.032	30.016	31.204	30.01	2.	Ranipet	28.13	22.18	22.18	21.792	21.074	22.176	22.048	18.37	3.	Tiruppur	24.32	38.07	46.99	29.49	32.398	32.398	27.795	42.14	4.	Mettur	20.77	21.28	24.18	27.48	21.39	24.175	23.02	23.75	5.	Thootukudi	44.25	44.95	42.17	41.96	41.7	41.7	24.383	25.77	6	Coimbatore	8.6	28.29	35.51	35.00	35.21	35.21	35.23	35.26	7.	Cuddalore	26.38	31.12	31.12	36.36	37.17	36.72	31.29	36.35	8.	Erode	25.02	20.27	50.69	49.73	49.71	49.71	49.71	39.04
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above said Polluted industrial Areas.			<ul style="list-style-type: none">- Pre- monsoon 2023 study was conducted for the 8 Polluted Industrial Areas (PIAs).- The CEPI scores arrived were sent to CPCB.- The CEPI score for the past 3 years were uploaded in the TNPCB website.- The conduct of Post-monsoon 2023 study is ongoing.
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Thematic Area: 9. Status of STPs and re-use of treated water

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>In the State of Tamil Nadu, there were 664 Urban Local Bodies (ULBs) which are now reorganized into 649 ULBs. The Government of Tamil Nadu has proposed to implement UGSS in all Municipal Corporations, AMRUT cities, District headquarter towns and some other towns of tourist and religious importance. The State has proposed to cover the remaining towns with Faecal sludge and Septage Management (FSSM) and appropriate grey water treatment facilities.</p> <p>Underground Sewerage Systems:</p> <p>67 ULBs have functional underground sewerage systems and 35 functional FSTPs with total installed treatment capacity of 1,337.07 MLD.</p> <p>There are 12,525 village panchayats in Tamil Nadu and estimated grey water generation at present is 1,130 MLD. Most of the grey water generated from rural households is absorbed in situ through kitchen gardens and individual soak pits. About 1056 MLD of grey water is being treated with the available infrastructures across 37 Districts.</p>	<p>DMA- 1,698.73 MLD (100%) DTP – 429.29 (100%) DRD – 1130 MLD (100%)</p>	<p>DMA- 446.16 MLD (13%) DTP – 345.69 MLD (51%) DRD – 73.74 MLD (10%)</p>	<p>Directorate of Municipal Administration and Directorate of Town Panchayats:</p> <p>6 ULBs have ongoing UGSS and 6 ULBs are sanctioned and are in various stages of implementation, 13 ULB DPRs are in tender stage, whereas additional STPs/STP cum FSTPs have been proposed in the revised used water action plan under SBM 2.0.</p> <p>The remaining 557 ULBs will be covered with grey and black water treatment facilities, of these 35 ULBs have functional FSTPs and in 16 ULB FSTPs are under construction. 12 ULBs were sanctioned under SBM 2.0. on pilot basis for STP cum FSTP. 76 ULBs were sanctioned for STP/STP cum FSTP during 6th and 7th SHPC. The remaining 418 ULBs are proposed to be covered by STP cum FSTP and FSTP under SBM 2.0, either on cluster basis or on standalone basis.</p> <p>Village Panchayats:</p> <p>In village panchayats, in order to fill the gap in the treatment of 74 MLD of grey water, treatment units for a total capacity of 160 MLD have been proposed</p> <p>DMA has set itself an ambitious target for complete recycle and reuse by 2035.</p> <ul style="list-style-type: none"> • At Present reuse of treated wastewater is 80.5 MLD (6.5%) <p>State Government have come out with a policy on reuse of treated</p>

Current Status						Desirable Level	Gap	Proposal for attending gap					
Details of Sewage Management in Tamil Nadu								wastewater. The policy envisages establishment of wastewater grids to promote the use of treated water for industrial, agriculture or non-drinking purpose domestic use. Action being taken to reduce the gap Treatment Units under construction/proposed (Municipality & Corporation)					
Category	Quantity of sewage generation (MLD)	Treatment capacity (MLD) Nov 2022	Current treatment capacity (MLD) June 2024	Gap in treatment (MLD) Nov 2022	Current gap in treatment (MLD) June 2024			Sl. No.	Category	Capacity of the plant (MLD)	Cost in Rs. Cr	Fund Source	Status
CMWSSB (Chennai)	743.00	912.80	1082.80	Attained	-			1	STPs with UGSS (06 Locations)	103.6	172.75	AMRUT 2.0/ADB/IUDM/CRRT/HUDCO	Under construction
DMA	1,698.73	1,229.07	1252.57	469.66	446.16			2	STPs with UGSS (6 Locations)	274.57	778	SBM 2.0/AMRUT 2.0/Kfw	Tender Called out
DTP	429.29	42.294	83.60	386.99	345.69			3	STPs with UGSS (13 locations)	221.03	507.08	AMRUT 2.0/SBM 2.0/kfw	DPR under appraisal
DRD&PR	1130	954.88	1056.26	175.12	73.74			4	FSTPs (9 locations)	0.23	28.03	IUDM/SBM 2.0	Under construction
Total	4,001.02	3,139.04	3475.23	1,031.77	865.59			5	STP cum FSTP (11 Locations)	33.80	108.93	SBM 2.0/AMRUT 2.0/kfw	Under construction
Faecal Sludge and Septage Management (FSSM):								6	STP/STP cum FSTP (27 Locations)	147.87	256.3	SBM 2.0/GoTN	Land Identified and DPR under preparation
<p>➤ Indiscriminate disposal of faecal sludge and septage in open environment and water bodies poses a great danger to the environment. Therefore, it is imperative to regulate the operation and movement of the lorries, trailers or any other vehicles used for decanting of septic tanks and cesspools and transportation of faecal sludge and septage to ensure safe disposal of the faecal sludge and septage.</p> <p>➤ The Government of Tamil Nadu have recognized the importance of Faecal Sludge and Septage Management (FSSM) as a viable method of sanitation for smaller cities and town and outgrowths in metropolitan</p>								7	STP / STP cum FSTP with I&D (22 locations)	121.06	327.82	SBM 2.0	Approved in 6 th and 7 th SHPC
								8	STP with UGSS	8.46	30.3	AMRUT 2.0/SBM 2.0/kfw	Sanctioned in 7 th SHPC
								Total		910.62	2209.21		

Current Status	Desirable Level	Gap	Proposal for attending gap																																																										
<p>cities. In pursuance of National Policy on Faecal Sludge and Septage Management, to provide complete full cycle of sanitation in the local bodies, a comprehensive programme has been formulated, for regulating periodic cleaning of septic tanks and transportation, treatment and disposal of faecal sludge and septage. For that purposes, the laws governing the Municipal Corporations, Municipalities, Town Panchayats and Chennai Metropolitan Water Supply and Sewerage have been amended by the Tamil Nadu Municipal Laws and the Chennai Metropolitan Water Supply and Sewerage (Amendment) Act, 2022 (Tamil Nadu Act 34 of 2022). For violation of such provisions severe penalty have also been provided therein.</p> <p>➤ Co-treatment of faecal sludge with sewage in underutilized Sewage Treatment Plants (STPs) in a cluster approach was suggested and decanting facility creation is under construction in 16 ULBs and completed in 5 ULBs.</p> <p>MOU signed for the sale of Secondary Treated Effluent Water (STEW) in the following ULBs:</p> <p>➤ Nagapattinam - 2.00MLD - M/s KVK Power for cooling purpose</p> <p>➤ Dindugul - 5.00MLD - to maintain the TDS level of Tanners as well for Agro - forestry.</p>			<p align="center">Treatment Units under construction/proposed (Town Panchayats)</p> <table border="1" data-bbox="1370 418 2145 991"> <thead> <tr> <th>Sl. No.</th> <th>Category</th> <th>Capacity of the plant (MLD)</th> <th>Cost in Rs. Cr</th> <th>Fund Source</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>STP cum FSTP (112 Locations)</td> <td>222.80</td> <td>601.60</td> <td>SBM 2.0</td> <td>Land needs to be identified and the DO letter is communicated to Collectors for the same</td> </tr> <tr> <td>2</td> <td>Grey water treatment units along Polluted River Stretches (6 Locations)</td> <td>9.32</td> <td>5.47</td> <td>SBM 2.0</td> <td>Under Construction</td> </tr> <tr> <td>3</td> <td>Grey water Treatment (256 Locations)</td> <td>479.31</td> <td>1231.90</td> <td>SBM 2.0</td> <td>In situ treatment facility will be created for grey water</td> </tr> <tr> <td>4</td> <td>STP / STP cum FSTP with I&D (54 locations)</td> <td>66.51</td> <td>338.23</td> <td>SBM 2.0</td> <td>Approved in 6th & 7th SHPC</td> </tr> <tr> <td colspan="2">Total</td> <td>777.94</td> <td>2177.2</td> <td></td> <td></td> </tr> </tbody> </table> <p align="center">Treatment Units under construction/proposed – Directorate of Rural Development and Panchayat Raj</p> <table border="1" data-bbox="1352 1093 2128 1289"> <thead> <tr> <th>Sl. No.</th> <th>Category</th> <th>Capacity (MLD)</th> <th>Cost in Rs. Cr</th> <th>Fund Source</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Individual Soak Pits (4,33,419 Nos)</td> <td>65.01</td> <td>589.75</td> <td>MGNREGS</td> <td rowspan="2">Projects under various stages of Implementation</td> </tr> <tr> <td>2</td> <td>Community Soak Pits (72,715 Nos)</td> <td>29.09</td> <td>120.12</td> <td>SBM (G) / 15th FC / MGNREGS</td> </tr> </tbody> </table>						Sl. No.	Category	Capacity of the plant (MLD)	Cost in Rs. Cr	Fund Source	Status	1	STP cum FSTP (112 Locations)	222.80	601.60	SBM 2.0	Land needs to be identified and the DO letter is communicated to Collectors for the same	2	Grey water treatment units along Polluted River Stretches (6 Locations)	9.32	5.47	SBM 2.0	Under Construction	3	Grey water Treatment (256 Locations)	479.31	1231.90	SBM 2.0	In situ treatment facility will be created for grey water	4	STP / STP cum FSTP with I&D (54 locations)	66.51	338.23	SBM 2.0	Approved in 6 th & 7 th SHPC	Total		777.94	2177.2			Sl. No.	Category	Capacity (MLD)	Cost in Rs. Cr	Fund Source	Status	1	Individual Soak Pits (4,33,419 Nos)	65.01	589.75	MGNREGS	Projects under various stages of Implementation	2	Community Soak Pits (72,715 Nos)	29.09	120.12	SBM (G) / 15 th FC / MGNREGS
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Current Status	Desirable Level	Gap	Proposal for attending gap				
<ul style="list-style-type: none"> ➤ Tirunelveli - 24.00MLD - Nanguneri SEZ for Industries ➤ Perambalur - Negotiation is under progress with MRF Industries for the sale of STEW of 3.00 MLD. ➤ Ramanathapuram - 3.00 MLD - NTC Infra ➤ Pollachi - 11.50 MLD - Agricultural use 			3	Vertical Filters (4,381 Nos)	21.91	66.51	SBM (G) / 15 th FC / MGNREGS
			4	Horizontal Filters (5,254 Nos)	31.52	99.28	SBM (G) / 15 th FC / MGNREGS
			5	Other Grey Water Management Facilities (124 Locations)	12.40	5.57	SBM (G) / 15 th FC
			Total		159.92	881.22	
<p>Chennai : Chennai Metropolitan Water Supply and Sewerage Board (CMWSSB) or (Metro water) established in 1978 is maintaining the Water Supply and Sewerage system within Greater Chennai Corporation. The operational area of Chennai city is 426 Sq.km and its present population is 74.38 Lakhs. The comprehensive wastewater management for the city was commenced in 1961 and had undergone modifications periodically commensurate with the system requirements of an expanding City and the growing population.</p> <p>Sewage Generation: The estimated Sewage Generation at present is 743 Million litres per day (MLD), with the sewage collection calculated at 100 litres per capita for the current population.</p> <p>Treatment: The sewage system of the core Chennai city is divided into 5 zones with</p>	743 MLD – (100%)	Nil	<p>CMWSSB has set itself an ambitious target for recycle and reuse by 2030. At present reuse of treated water is 79.20 MLD (11%) of the sewage collected for treatment</p>				

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>independent zonal collection, conveyance, treatment and disposal facilities. The collected sewage from pumping stations is treated at 23 Sewage Treatment Plants.</p> <ul style="list-style-type: none"> ✓ In Chennai city, Chennai Metropolitan Water Supply and Sewerage Board is providing sewerage services including wastewater treatment, reuse of treated water and power generation from Sewage Treatment Plants. Sewage Treatment Plants at Chennai have an installed capacity of 1092.80 MLD. The present Utilization is 650 MLD Avg (60%), an increase of 18% from the Utilization in 2019 at 532 MLD Avg. <p>Quality monitoring:</p> <ul style="list-style-type: none"> ✓ All the existing plants are compliant with the existing discharge standards specified by TNPCB for PH – 6.5 to 8.5, BoD <20 mg/L, CoD<250 mg/L, TSS<30 mg/L and Faecal coliform<10000 MPN. The discharge standards apart from the inhouse labs, are also periodically tested by the TNPCB. Further, CMWSSB has conducted third party performance check of the STPs through Centre for Environmental Studies Anna University for compliance on discharge standards. ✓ To monitor the quality parameters continuously as per CPCB directions, Installation of online continuous effluent monitoring system (OCEMS) under progress in all completed and ongoing STPs. 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Reasons for underutilization:</p> <ul style="list-style-type: none"> ✓ The present Utilization average is at 650 MLD (60%), however providing UGSS and septage collection improvements for newly added areas, Sewage collection system improvements in old areas and plugging of outfalls, interception and diversion works in all the Chennai city waterways viz., Adyar river, Buckingham Canal and Cooum river are in progress to achieve maximum utilization. <p>At present there is no inadequacy in sewage treatment capacity for the sewage collected, however following actions have been taken for improving collection.</p> <p>House Sewer Connections</p> <ul style="list-style-type: none"> ✓ To bridge the gap in generation and treatment CMWSSB is actively effecting house sewer connections for eligible consumers in both old areas with already existing sewerage system and newly added areas with recently commissioned UGSS under various schemes, collecting connection charges in instalments have been given since 2019 under these schemes. ✓ CMWSSB, for people under below the poverty line is effecting sewer connections to their premises at Rs.100 per connection to improve hygiene and safe disposal of sewage since 2019 under this scheme. 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Septage Collection</p> <ul style="list-style-type: none"> ✓ To collect faecal sludge from the added areas of the Greater Chennai Corporation, served by septic tanks, CMWSSB has increased the number of decanting points in Sewage Treatment Plants for collection and co-treatment. ✓ The collection of septage has been increased from 2.1 ML in 2019 to 8.65 ML at present and cotreated at Nesapakkam, Perungudi and Sholinganallur. ✓ To regulate the septage desludging operators, the State has framed Regulations and Operational guidelines to ensure the usage of treatment facilities and thereby safe disposal of fecal sludge and septage. <p>Sewage Outfalls into river drains</p> <ul style="list-style-type: none"> ✓ The restoration of the Chennai waterways is at the top of the priorities for the Government of Tamil Nādu and accorded Administrative Sanction vide G.O. (Ms) No. 107 MA&WS (MW1) Dept, dt: 20.08.2019 “Plugging of sewage outfalls into the drains of Buckingham canal and Adyar and Cooum rivers in Chennai city”. Interception and Diversion works and Infrastructure Strengthening works were proposed and Work orders has been issued for 36 nos of work (6 nos of Interception & Diversion works and 30 nos of 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Infrastructure Strengthening works) amounting to Rs. 364.80 crores. As on 30.06.2024, 12 nos of works have been completed and the remaining works are in progress.</p> <p>Sewage Outfalls into rivers</p> <ul style="list-style-type: none"> ✓ Cooum - CMWSSB obtained sanction and took up implementation of thirteen works at a total cost of 193.25 Crore under Integrated Cooum river eco-restoration project of CRRT. The works consisted of ten numbers of Interception & Diversion arrangements along the river including a Under Ground Sewerage Scheme (UGSS) at Nerkundram, two Modular Sewage Treatment Plants (STPs) for treatment of the diverted Sewage at Chetpet and Nungambakkam and one 10 MLD Sewage Treatment Plant (TTUF) at Langs Garden. The nine interception and diversion works and the modular sewage treatment plant at Chetpet, Choolaimedu and 10MLD TTUF at Langs Grden has been completed. ✓ Adyar - CRRT Board had sanctioned ten works (Seven numbers of I&D works and three numbers of Modular STPs) prepared for the mitigation of sewage outfalls within Chennai city into River Adyar at a total cost of 90.95 Crore. CMWSSB has completed five I&D works and two modular STPs, one modular STP at Kotturpuram and one at Todd Hunter nagar has been completed, out of the remaining three 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>works, one modular STP at Kundrathur Municipality and two I&D works are also completed.</p> <p>STP Capacity addition:</p> <ul style="list-style-type: none"> ✓ Based on the requirements for the treatment of the sewage to be collected from the ongoing underground sewerage schemes, future growth in generation and also considering STPs to be phased out additional Sewage Treatment plants for a total capacity of 476.80 MLD. Out of the 476.80 MLD, Kodungaiyur Zone II 120 MLD & Zone I 120 MLD, Nesapakkam TTUF 10 MLD and 50MLD STP, Modular STPs of 1.0MLD, 1.2 MLD, 4.0MLD, 0.6 MLD and 10MLD TTUF at Chetpet, Choolaimedu, Todd Hunter Nagar, Kotturpuram and Langs Garden respectively for a total capacity of 347.80 MLD has been completed and works for the balance 129 MLD (Sholinganallur 54 MLD, Perungudi 60 MLD, Perungudi TTUF 10 MLD, 5MLD TTUF Villivakkam) are in progress. ✓ The new plants are designed to achieve the new discharge standards ordered by the NGT in 2019 for mega and metropolitan cities including nutrient removal as expected are now operational. <p>Utilization of treated sewage:</p> <ul style="list-style-type: none"> ✓ CMWSSB has been promoting the reuse of wastewater in Chennai from the 1980s. Farm forestry was developed around sewage treatment 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>plants at Kodungaiyur and Nesapakkam in the 1980s itself. The secondary treated wastewater is supplied for industrial purposes early from the year 1993 and to GCC & TNRDC for landscaping and gardening purposes.</p> <p>✓ The present average inflow of sewage received, treated and discharged in Chennai city is 650 MLD, out of which 25.00 MLD of secondary treated waste water, 46.00 MLD of tertiary treated water is supplied for industrial purposes, 8.00 MLD of Tertiary Treated water is discharged to urbanized lakes which have lost their catchment due to rapid growth for recharging and reuse, and 0.20 MLD is supplied to GCC & TNRDC for landscaping and gardening purposes. The remaining treated wastewater is being discharged into the Chennai city water ways as per TNPCB norms. A total of 110 MLD (90 MLD TTRO + 20 MLD TTUF – 10 MLD at Nesapakkam and 10 MLD at Langs Garden) of tertiary treatment plants have been constructed and commissioned. Another 10 MLD of tertiary treatment plant is under construction.</p> <p>Tertiary Treatment using Reverse Osmosis Plants:</p> <p>✓ The two 45 MLD Capacity each Tertiary Treatment Reverse Osmosis (TTRO) Plants at Kodungaiyur and Koyambedu including Supply and laying DI Transmission mains for conveyance of Product water to</p>			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>various industries in Manali and industries at Sriperumbudur, Irungattukottai and Oragadam were constructed at a cost of Rs.235 crore and Rs.396 Crore respectively on Design, Build and Operate (DBO) basis. The construction was completed and the plants were commissioned in Dec 2019.</p> <ul style="list-style-type: none"> ✓ The tertiary treatment facility utilizes the secondary treated water discharged from the existing STP at Kodungaiyur and Koyambedu. ✓ Name of the Industries TTRO water supplied from Kodungaiyur - Chennai Petroleum Corporation Ltd, Manali Fertilizers Ltd, Manali Petrochemicals Ltd, Tamil nadu Petroproducts Ltd - LAB & HCD plant (Plant 1 & 2), CETEX, Indian additives Ltd, Kothari Petrochemicals Ltd, North Chennai Thermal Power Station - Stage I & II, National Thermal Power Corporation JV Tamil Nadu Energy Company Ltd. ✓ Name of the Industries TTRO water supplied from Koyambedu - SIPCOT – Irunkattukottai, SIPCOT – Sriperumbudur, SIPCOT – Oragadam, SIPCOT – Pillaipakkam, SIPCOT - Vallam Vadagal ✓ Due to this at the present rate of supply the quantity saved is equivalent to more than one month of water supply to 75 lakh population of the city. 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Tertiary Treatment using Ultrafiltration Plants -Recharging of lakes and reuse.</p> <ul style="list-style-type: none"> ✓ CMWSSB in continuing its efforts to augment supply of water through sustainable sources and also reuse the wastewater for pollution abatement has made a detailed study with IIT Chennai and is working on the projects for use of tertiary treated water for recharging of lakes and to draw the water for supply through a water treatment plant near to the lake and the water distribution station. This aims at sustainable, decentralized source augmentation, ground water enhancement and pollution abatement. ✓ GoTN sanctioned two proposals of each 10 MLD capacity for recycle, recharge and reuse of tertiary treated water from Nesapakkam STP at cost of Rs. 28.75 Cr to Porur lake and Water Treatment Plant and from Perungudi STP to Perungudi lake at a cost of Rs. 24.35 Cr. The work was awarded on 07.03.2019 for Nesapakkam TTUF and for Perungudi TTUF. ✓ Nesapakkam 10 MLD TTUF – The treated water is supplied to Porur Lake for Recharging of urbanized lake and indirect reuse with a new water treatment plant near the lake – Work completed, and the Plant is Commissioned. ✓ Perungudi 10 MLD TTUF – The treated water is to be supplied to 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Perungudi Lake for Recharging of urbanized lakes and indirect reuse with a new water treatment plant near the lake – Work is in progress.</p> <p>✓ Langs Garden 10 MLD TTUF – The 10MLD capacity Modular Sewage Treatment Plant based on Moving Bed BioFilm Reactor Technology followed by Ultra Filtration at Langs Garden sewage pumping station is constructed with a project cost of Rs. 33.44 Crore under integrated Coovum River Eco restoration project. The plant construction works are completed, treatment trial commissioning is nearing completion and the treated water is to be supplied to Railways and Greater Chennai Corporation.</p> <p>✓ Villivakkam 5 MLD TTUF - The Tamil Nadu Government has sanctioned 5 MLD capacity TTUF at a cost of 17.93 Crore vide G.O.(D) No.383, MAWS (MC1 Dept) Dt. 20.10.2022 for supplying the tertiary treated water to Villivakkam Lake for lake rejuvenation and recharging of ground water. The work has been awarded, preliminary works are under progress.</p> <p>Revenue through recycle</p> <p>✓ The product water from the TTRO plants is supplied to various Petro chemical industries and other industries in Manali, North Chennai and industries at the State Industries Promotion corporation of Tamil Nadu (SIPCOT) industrial parks in Sriperumbudur, Irungattukottai and</p>			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Oragadam. The 46 MLD product water is supplied to the industries at the rate of Rs.80.00/KL in Manali and at Rs.65/KL to SIPCOT, which redistributes the water the industries in its industrial parks.</p> <p>✓ The sale of the treated water has generated an income of Rs. 279.16 Cr for CMWSSB since 2020 and currently with the supply of TTRO water, CMWSSB earns an increased revenue of Rs.8.94 Cr per month. The sale secondary treated water to industries also yields a revenue of Rs.1.80 Cr per month to CMWSSB in Chennai.</p> <p>The Utilization of treated sewage at present (2024) is 11.00% of the sewage received and has been more than doubled than that in 2019 which was around 6% then. The total quantity of 79 ML treated and reused is with i) Supply of secondary treated water – 25.00 ML, ii) Supply of Tertiary treated water – 46.00 ML and iii) Tertiary Treated water for recharging of lakes and reuse - 8.00 ML.</p> <p>IMPROVEMENT OF EXISTING SEWERAGE SYSTEM IN THE PART OF OLD CHENNAI CITY OF AREA 174 SQ.KM OF CHENNAI CITY</p> <p>The Government of Tamil Nadu vide G.O. (MS) No. 256, MA & WS (Election) Dept. dt 26.12.2009 had issued orders for expanding Chennai city by annexing 42 Adjacent urban local bodies which included 9 Municipalities, 8 Town Panchayats and 25 Village Panchayats. The extent of the expanded Chennai City limit is now 426 Sq.km from the original area of 174 Sq.km.</p>			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>CMWSS Board is a statutory body which provides water supply and sewerage infrastructure facilities to the residents of Chennai city.</p> <p>The sewage generated from the residences of the city is collected through the network of sewage collection system. The sewerage system in the old city areas which includes Area – IV, V, VI, VIII, IX, X & XIII have been in existence for over 30 years. The capacity of the Gravity Main, Wells, Pumping Main and pumping equipments are inadequate to meet the present population requirements and hence, the sewerage system could not be operated under full efficiency. In addition to this, in most of the reaches the existing pipes are incrustated and thus the part of the existing Sewerage system requires renewal in the project area. Therefore, it is necessary to improve the existing Sewerage system in the project area for the effective disposal of sewage.</p> <p>It is proposed to study, analyse, plan, design entire sewerage system in the Core area of Chennai city i.e 174Sq.Km and also implementation of a full scale SCADA for the entire Sewerage System in the Chennai City of 426 Sq.Km from Lift station to Pumping Station and Pumping Station to STP by undertaking a technical, financial, economic, environmental and social study, prioritized capital investment plan, detailed designs, drawings, cost estimates and bidding documents for planning and implementation. The Following are the major components of the project:</p>			

Current Status	Desirable Level	Gap	Proposal for attending gap
<ul style="list-style-type: none"> a. Improvement works of Sewage Pumping Station / Lift Station and Collection System Network in the project area of 174 Sq.Km b. Enhancing the adequacy of STP for disposal of sewage from the project area. c. To establish safe disposal of sewage as per CPHEEO. Providing / Rehabilitation / Revamping / Redesigning / Designing of the entire Collection System including Pumping mains, Pumping stations, etc. d. Enhancing the adequacy and efficiency of existing Pumps by replacement/additional Pump capacity. e. To control the odour level in the existing Sewage Pumping Station / Lift station by cost effective and environment friendly odour control measures/methodology. f. Introducing any novel technology for removing silt in the design of Collection system network / Manhole. g. Effecting innovative technologies which are practically implemented in sewerage projects. h. Establish the Central Monitoring SCADA system for Sewerage system operation & maintenance for the entire Chennai City of 426 Sq.Km i. To ensure the safe disposal of sewage from collection system to 			

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Pumping station and in turn into Sewage Treatment Plants.</p> <p>j. Supplying and fixing suitable flow meter / measuring instrument to access the quantity of sewage pumped in each pumping station.</p> <p>DPRs are under preparation based on the catchment of STPs (comprising of Perungudi, Kodungaiyur, Koyambedu, Nesapakkam) and SCADA report. Inception report submitted and approved.</p>			

Thematic Area: 10. Status of CETPs/ETPs including performance.

Thematic Area :3(X)	Status of CETPs/ETPs including performance:
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Thematic Area :3(X)		Status of CETPs/ETPs including performance:		Desirable Level	Gap	Proposal for attending Gap			
Current Status - Dec-2023									
Compliance status of ETPs:				All ETPs to achieve the standards prescribed by the Board.	4 IETPs	Further action will be initiated on receipt of the reply for Show cause notice from the 4 IETPs units.			
No. of Industries which require ETP		13452							
No. of Industries having functional ETP		13452							
No. of Industries complying		13404							
No. of Industries non-complying		48							
Show cause notice issued		4							
Closure directions issued		44							
No of Industries against which action is under process/any other (prescribed)		0							
No. of industries operating without ETP		0							
Show cause notice issued		0							
Closure Direction issued		0							
Compliance status of CETPs: (Dec-2023):							All the CETPs to achieve the standards prescribed by the Board.	3 CETPs	Further action will be initiated on receipt of the reply for Show cause notice from the 3 CETPs.
No. of CETPs		37							
No. of CETPs complying		30							
No. of CETPs non-complying		7							
Show cause notice issued		3							
Closure directions issued		4							
No of CETPs against which action is under process/any other (prescribed)		0							

Thematic Area: 11 Ground water extraction/contamination and recharge

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Groundwater Extraction:</p> <p>Tamil Nadu State is underlain by diverse hydrogeological formations. Nearly 73% of the State is occupied by hard rocks, remaining 27% underlined by sedimentary formations which are mainly confined to the eastern part including the coastal tract. In the hard rock areas, groundwater is developed through dug wells tapping the weathered zone and dug cum bore wells and bore wells tap the deeper fractures down to a depth of 300 m. In semi consolidated and unconsolidated formation, shallow zones are tapped by filter points and shallow tube wells and deeper zones through deeper tube wells. The yields of open wells vary from 1 to 3 lps, whereas in dug wells tapping soft rocks including sedimentary formations, the yield is up to 10lps. The yield from unconsolidated and semi consolidated formations are in general 10 to 20 lps and also as high as 40 lps are also noticed at select places.</p> <p>The Ground water resources for the State have been assessed on firka wise. As per 2023 total annual Groundwater recharge of the State is 21.59 bcm and Annual extractable Ground Water resources as 19.51 bcm. The Annual Ground Water extraction is 14.42 bcm and Stage of Ground Water Extraction as 73.91%.</p> <p>As per Ground Water Resources Estimation Committee (GEC 2015)</p>	<p>To contain the GW exploitation and replenish Groundwater Level in Over exploited and Critical Areas with Artificial Recharge of Groundwater.</p>		<p>Draft of "Tamil Nadu Water Resources Act" was prepared and sent to Government.</p>

Current Status	Desirable Level	Gap	Proposal for attending gap																					
<p>methodology, State Ground and Surface Water Resources Data Centre (SG&SWRDC), Tharamani, Chennai has re-estimated the Ground Water Resources of Tamil Nadu State for 2023 with the Coordination of the Regional Director, Central Ground Water Board, South Eastern Coastal Region, Chennai.</p> <p>The categorization as per the Re – Estimation of Dynamic Ground Water Resources of Tamil Nadu State -2023 reads as follows:</p> <table border="1" data-bbox="282 635 1008 959"> <thead> <tr> <th>S.No</th> <th>Categorisation based on extraction</th> <th>No of Firkas</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Over Exploited (More than 100%)</td> <td>395</td> </tr> <tr> <td>2</td> <td>Critical (90% to 100%)</td> <td>64</td> </tr> <tr> <td>3</td> <td>Semi Critical (70% to 90%)</td> <td>227</td> </tr> <tr> <td>4</td> <td>Safe (Less than 70%)</td> <td>482</td> </tr> <tr> <td>5</td> <td>Saline</td> <td>34</td> </tr> <tr> <td colspan="2">TOTAL</td> <td>1202</td> </tr> </tbody> </table> <p>The categorization as per the Re – Estimation of Dynamic Ground Water Resources of Tamil Nadu State is being carried out once in two years. The comprehensive over all Reassessment of Dynamic Ground Water Resources of Tamil Nadu State as on March 2023 has been completed by State Ground and Surface Water Resources Data Centre in coordination with CGWB and Government order was issued vide G.O. (Ms). No.37, Water Resources (R1) Department, Dated 07.03.2024.</p>	S.No	Categorisation based on extraction	No of Firkas	1	Over Exploited (More than 100%)	395	2	Critical (90% to 100%)	64	3	Semi Critical (70% to 90%)	227	4	Safe (Less than 70%)	482	5	Saline	34	TOTAL		1202			
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TOTAL		1202																						

Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Ground Water Contamination:</p> <p>The State Ground and Surface Water Resources Data Centre (SG & SWRDC), WRD is collecting ground water samples from 2258 locations (Two samples per Firka) biannually i.e during pre (July) and Post (January) monsoon period of every year and a total of 4516 samples are being collected and analysed in our Geochemical Laboratories for various physico chemical parameters.</p> <p>From the analytical data, it is inferred that,</p> <p>Total Dissolved Solids (TDS) exceeds the permissible limit in Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Karur, Krishnagiri, Madurai, Namakkal, Perambalur, Pudukottai, Ramanathapuram, Salem, Sivagangai, Tenkasi, Thanjavur, Thoothukudi, Tiruchirapalli, Tiruppur, Tirupathur, Tirunelveli, Tiruvarur, Vellore and Virudhunagar Districts.</p> <p>Nitrarte concentration exceeds the permissible limit in Coimbatore, Dharmapuri, Dindigul, Erode, Kallakkurichi, Kancheepuram, Karur, Madurai, Namakkal, Nilgiris, Perambalur, Pudukkottai, Ramanathapuram, Ranipet, Salem, Sivagangai, Tenkasi, Theni, Thoothukudi, Tiruppathur, Tiruppur, Tiruchirapalli, Tirunelveli, Vellore, Villupuram and Virudhunagar districts.</p> <p>Fluoride concentration exceeds the permissible limit in Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kallakkurichi, Kancheepuram, Karur, Krishnagiri, Madurai, Namakkal, Pudukkottai, Salem, Thanjavur, Theni, Tiruvallur, Tiruvannamalai, Tiruppathur, Tiruppur, Thoothukudi, Tiruchirapalli, Tirunelveli, Vellore, Villupuram and Virudhunagar districts.</p> <p>The distribution of ground water quality of Tamil Nadu from 2011 to 2022 in terms of TDS percentage:</p>	<p>WQ parameters Permissible limits for Drinking purpose</p> <p>TDS: <2000 mg/l</p> <p>Nitrate: <45 mg/l</p> <p>Fluoride: <1.5 mg/l</p>		<p>Water quality monitoring is a continuous process.</p> <p>Every year “Water Quality Year Book” the year wise water quality is being prepared by SG & SWRDC, WRD and the same is communicated to all the District Collectors and line Departments like TWAD Board, TNPCB, CGWB, for further action.</p> <p>During the month of January 2024, around 2258 nos. of samples have been collected and samples are being analysed in the four Geochemical Laboratories at Chennai, Trichy, Madurai and Pollachi.</p>

Current Status				Desirable Level	Gap	Proposal for attending gap																																																							
<table border="1"> <thead> <tr> <th>Year</th> <th>Good</th> <th>Moderate</th> <th>Poor</th> </tr> </thead> <tbody> <tr> <td>2011</td> <td>30</td> <td>63</td> <td>7</td> </tr> <tr> <td>2012</td> <td>36</td> <td>57</td> <td>7</td> </tr> <tr> <td>2013</td> <td>31</td> <td>60</td> <td>9</td> </tr> <tr> <td>2014</td> <td>34</td> <td>59</td> <td>7</td> </tr> <tr> <td>2015</td> <td>34</td> <td>59</td> <td>7</td> </tr> <tr> <td>2016</td> <td>33</td> <td>59</td> <td>8</td> </tr> <tr> <td>2017</td> <td>32</td> <td>60</td> <td>8</td> </tr> <tr> <td>2018</td> <td>34</td> <td>59</td> <td>7</td> </tr> <tr> <td>2019</td> <td>31</td> <td>61</td> <td>8</td> </tr> <tr> <td>2020</td> <td>35</td> <td>58</td> <td>7</td> </tr> <tr> <td>2021</td> <td>38</td> <td>56</td> <td>6</td> </tr> <tr> <td>2022</td> <td>35</td> <td>58</td> <td>7</td> </tr> </tbody> </table> <p>On observing the water quality details of from 2011 to 2022 it is inferred that nearly 6 to 9% of the wells of Tamil Nadu is having poor quality water due to contamination either by geogenic (or) by man-made.</p>							Year	Good	Moderate	Poor	2011	30	63	7	2012	36	57	7	2013	31	60	9	2014	34	59	7	2015	34	59	7	2016	33	59	8	2017	32	60	8	2018	34	59	7	2019	31	61	8	2020	35	58	7	2021	38	56	6	2022	35	58	7			
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Current Status	Desirable Level	Gap	Proposal for attending gap
<p>Groundwater Recharge:</p> <p>Artificial Recharge Measures like Check dams across rivers, installing recharge shafts in tanks and the river beds were carried out under the various projects under WRD like.</p> <p>Master Plan for Artificial Recharge Structures (MPARS) (152 Packages). NABARD schemes (11 Check Dams).</p> <p>WB Aided Irrigated Agriculture Modernisation and Water-Bodies Restoration and Management Project, (IAMWARM) (56 Recharge Wells).</p> <p>TNIAM (Irrigated Agriculture Modernisation) Project TNIAMP - I – (42 Recharge wells)</p> <p>TNIAMP – Phase –II – (37 Recharge wells)</p> <p>TNIAMP – Phase –III – (16 Recharge wells)</p>			

Current Status														Desirable Level	Gap	Proposal for attending gap
Rejuvenation of Water Bodies																
The following works have been in this regard																
a) Water Resources Department																
1. Kudimaramath																
Details of Irrigation Structures under taken through Kudimaramathu (Rs. in Lakhs)																
Sl. No.	Year	Tanks		Anicut		Canals		Chain canals		Other works		Total				
		Nos	Estimate Amount	Nos	Estimate Amount	Nos	Estimate Amount	Nos	Estimate Amount	Nos	Estimate Amount	Nos	Estimate Amount			
1	2016-17	818	5820.73	27	144.47	326	1708.48	196	1171.72	152	1154.50	1519	10000.00			
2	2017-18	974	24991.60	29	703.20	321	4413.28	107	1894.29	92	1365.53	1523	33167.90			
3	2019-20	1099	35585.70	48	2191.65	316	5986.85	187	3095.05	179	3109.25	1829	49968.50			
4	2020-21	643	29235.88	46	2317.90	366	8571.10	132	4487.50	220	5622.07	1407	50234.45			
	Total	3534	95833.91	150	5357.22	1329	20679.71	622	10448.56	643	11251.45	6278	143370.85			
2. Repair, Renovation and Restoration (RRR) of Water Bodies Project																
2015-16 - 104 Nos. of tanks have been renovated.																
2017-18 - 49 Nos. of tanks have been renovated.																
2020- 21 - 83 tanks renovation – works completed physically.																
2021- 22 - 9 tanks renovation – works under progress.																
2021-22 – 115 tanks renovation – 50 works completed & balance works under progress																
2022-23 – 85 tanks renovation – 2 works completed & balance works under																

Current Status					Desirable Level	Gap	Proposal for attending gap
progress 2022-23 – 100 tanks renovation – 4 works completed & balance works under progress 2022-23 – 100 tanks renovation – works to be taken up 3. TNIAMP							
Details of works taken under TN IAM Project							
Sl. No.	Phase	As Amount (Rs in Lakh)	No.of Tanks	year			
1	RAF & Phase I	76943.03	1382	RAF: 2017-2018 Phase I: 2017-2018			
2	Phase II	63275.07	906	Phase II: 2019-2020			
3	Phase III	18195.46	329	Phase III: 2021-2022			
4	Phase IV	34619.06	12	Administrative sanction has been obtained for 9 Sub basins. Phase IV: 2022-2023 (8 Sub basins) & 2023 - 24 (1 Sub basin)			
TNIAMP Total		193032.62	2629				

Thematic Area: 12. Air Pollution including Noise Pollution

Thematic Area :3(X)	Air Pollution including Noise Pollution		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>(1). As per the directions of the Hon'ble National green Tribunal (NGT) Noise mapping for the cities of Chennai, Coimbatore and Madurai has been completed.</p> <p>(2). The procurement of Noise monitoring instruments and its usage by the Police department to address noise related complaints.</p>	<p>Identification of hot spots and preparation of mitigation plan for control of noise pollution by carrying out the Noise mapping in cities of Chennai, Madurai, and Coimbatore. The Noise mapping for the above 3 cities to be completed.</p>	<p>Hot spots of noise pollution has been identified based on the noise monitoring survey conducted in the cities of Chennai, Madurai and Coimbatore</p>	<ul style="list-style-type: none"> ▪ TNPCB has proposed to study the present level of noise in million plus cities (Population over 10 Lakh) Chennai, Coimbatore, Madurai and Trichy during the FY 2024-25. ▪ CPCB has identified 2 more cities Coimbatore and Madurai in Tamil Nadu for establishing Real Time Noise Monitoring Stations. ▪ The noise level mapping study at the Chennai, Coimbatore and Madurai cities were completed. The TNPCB has also given guidance to the Police Department on the procurement of Noise monitoring instruments. ▪ As per the NGT directions a Committee has been constituted with the members comprising from Police Department and TNPCB. On 9.1.2020, reputed firms were asked to demo their noise monitoring equipment. After ascertaining the requirement from field units, a proposal was sent to the Government from the police department for necessary administrative and financial sanction for the procurement of noise monitoring devices. ▪ Under fifteenth finance commission (XV-FC) 2020-21 for the air quality improvement in the million plus cities of Tamil Nadu, Greater Chennai Corporation has allocated a fund of Rs 1,85,50,000/- to Police Department for the procurement of 106 Noise monitoring instruments (Letter No C.E (GI)C.No:A2/0293/2021 dated 30.06.2021). ▪ For the installation of Noise limiters in the Noise making instruments/equipments necessary proposal has been sent to the Govt for the issue of notification."

Thematic Area: 13. Illegal Sand Mining**I. Department of Geology and Mining**

- a) **Brief history on sand mining:** - As far as mining and sale of sand is concerned, it is informed that the Government in Public Works Department was entrusted for carrying out mining operations for sand and sale of sand from the month of October 2003 onwards vide G.O.Ms.No.95 Industries Department dated 01.10.2003.
- b) **Seizure of vehicles for last five years:** - The number of vehicles seized for illegal transport of sand, penalty collected, FIR registered & cases booked under Goondas Act for the quarter ending June 2024 is furnished below:

Details of Number of Vehicles Seized and Penalty Collected			
Sl.No.	Month	No. of Vehicles Seized	Penalty Collected (in Rs.)
1	upto Dec - 2023	13,815	1,85,21,911
2	Jan -2024	205	2,52,500
3	Feb -2024	181	4,41,288
4	Mar -2024	240	5,15,851
5	Apr-2024	218	5,11,780
6	May-2024	323	1,17,911
7	June-2024	218	71,415
TOTAL		15,200	2,04,32,656

c) Prevention of Illegal Mining: -

- i) The District Level Task Force and Taluk Level Task Forces are functioning under the Chairmanship of the District Collectors and the Tahsildars respectively and taking action on the compliant petitions received from various quarters on illegal mining and transportation of minerals.
- ii) Drone Technology is proposed to monitor illicit quarrying other than sand. Drone Technology will be pressed into service in association with Madras Institute of Technology (MIT) for monitoring illegal quarrying of minerals other than Sand.

iii) **Mining Surveillance System:-** The Mining Surveillance System is being used for monitoring activities within 500 mts. of mining leases granted for major mineral and if any unlawful activities are noticed in the area within a radial distance of 500 mts. from the lease granted area it will be recorded in the form of “triggers” and the same will be forwarded to the Department of Geology and Mining of the State concern for physical verification and necessary action.

II. Public Works Department

Tamil Nadu Government, in public interest issued amendment to the Tamil Nadu Minor Mineral Concession Rules, 1959, in G.O.(Ms).No.95, dated 01.10.2003 by introduction of Rule 38-A of the Tamil Nadu Minor Mineral Concession Rules, 1959. From 02.10.2003, Public Works Department sells sand from river beds to Public and consumers.

In the G.O. Ms.No.451, Public Works (W. Spl.1) Department, Dated 03.10.2003, the Government ordered that the Water Resources Department of the Public Works Department is operating sand quarries in all the river systems of Tamil Nadu since 03.10.2003.

REFORMS IN OPERATION OF SAND QUARRYING

- ❖ A paradigm shift in the mode of sand quarrying operations happened during April-May 2017, when several revolutionary and reformatory measures were infused into this sector complying with the “Sustainable Sand Mining Management Guidelines,2016”.
- ❖ A specialized mobile and web application, ‘TN Sand’ came into existence where the public and lorry owners made an online booking for their load of sand from 01.07.2017. From 18.07.2017 online payment facilities are made available. This mode of sale accounted for each unit of sand which ensures controlled mining without exceeding the approved quantity.
- ❖ The introduction of online sales accounted for each unit of sand and thus the quantity to be mined from each quarry was monitored online.
- ❖ In order to weed out the vehicles with fake permits and registration numbers, a State wide Sand Transport Vehicle Registration Drive was conducted in six phases wherein the Insurance, Permit and FC of the sand transport vehicles were checked by the officials from RTO and counter checked with the VAHAAN web site of the Transport Department.
- ❖ Based on the order of booking, schedule is prepared and communicated to the concerned field officers for loading the sand to the registered vehicle. The schedule contains the Lorry Chasis Number, Registration Number and Engine Number by which the field officers are able to check and seize the vehicle/lorries containing fictitious number plates. Such seized vehicles are blacklisted from TN sand and their registration are cancelled preventing them from further loading of sand from the Government Depots.

- ❖ The four boundaries of the quarries are now being demarcated with stone pillars at 50m intervals using GPS and Total Stations giving no room for any doubt in the calculation of the depth and area of quarry.
- ❖ The depot system of sand sale is now being implemented which prevents the movement of private vehicles inside the riverbed and to safeguard the eco system of river. The waiting time outside the sand depots have been done away with, and all scheduled lorries pick up sand on the date specified. SMS/email is sent to the customer 30 hours before the scheduled time of pick-up to prevent unnecessary waiting outside the sand depots.
- ❖ The quarries and depots are monitored through the CCTVs installed at these places by the Control Room established at Chennai in the Project Directorate. A robust Customer Care system is also in operation in the Control Room to redress the grievances of the public.
- ❖ Sand will be loaded in the quarries in the PWD tendered GPS fitted vehicles and online transmit permit will be issued to the transporting vehicles to transport sand from the quarry to depots. The movement of the PWD tendered vehicles will be monitored using GPS equipment fitted on to the vehicle.
- ❖ A 'shunting mobile application' has also been developed for the purpose of accounting for the quantum of sand lifted from the quarries and transported to the depots, with an online authentication at the depots also.
- ❖ The Government have constituted a District Level Task Force Committee under the Chairmanship of District Collector in the G.O.(Ms).No. 135, Industries (MMA.1) Department, dated 13.11.2009 to collect /review the information/cases relating to the illegal mining/quarrying within their jurisdictions and review the work of Taluk Level Task Forces.
- ❖ The Taluk Level Task Force, convened by the Tahsildar, the District Level Task Force, chaired by the District Collector and the State Appellate Forum act on the complaints received, if any, on illegal sand quarrying and take strict remedial measures to rectify the same in a time bound manner. In addition, as per the directions of the Hon'ble Madurai Bench of Madras High Court, a Monitoring Committee comprising experts from IIT, Anna University and Hydro Geologist have been formed to efficiently monitor the sand quarry activities and ensure that it operates in an ecologically and environmentally sustainable manner.
- ❖ The Public Works Department prepares the mining plan by Recognized Qualified Person (RQP) for getting Environmental Clearance from State Level Environmental Impact Assessment Authority (SEIAA)
- ❖ A law enforcement team comprising officials from Revenue, Police etc., is working round the clock to curb illegal mining The PWD has also developed a mobile application, 'TN Sand Investigator App' for the use of enforcement officials from revenue, police and transport department to authenticate the online permits and also to identify fake or manipulated permits.

- ❖ In the G.O(Ms)No.62, Home, Prohibition and Excise (XVI) Department, dated 10.10.2018, the Government have issues orders keen to prevent “sand theft” and “sand smuggling” with the effective and prompt action by the Government Officials and many instructions have been issued to the concerned by the Government in this regard from time to time. The need of the hour is to maintain the vast fertile eco system of this State in the stable form by curtailing all types of sand smuggling with the services of the Government Officials. In view of the position set out above the Government officials and police officials concerned are bound to prevent such offences.
- ❖ Overall, due to the continuous efforts and effective measures taken by the Government, it is ensured that sand quarrying operations are operated in an ecologically and environmentally sustainable manner complying with the existing rules and guidelines.

Thematic Area: 14. Rejuvenation of Water bodies

(Prepared as per the direction of NGT in M.P.26/2019 of O.A 325/2015 dated 10.05.2019)

1. Preamble

Tamil Nadu is the most urbanized state in India with 48.5% of its population living in urban areas. The projected percentage of the urban population for Tamil Nadu for the year 2030 has been estimated at 67% which will be the highest in the country. Even with such rapid urbanisation, the state is at the forefront in providing urban amenities to its citizens. In order to sustain this status, attention needs to be focused in providing water supply to the present generation and to preserve the water source to the future generation.

In this scenario, there can be no dispute that the water bodies play significant role in recharge of ground water, prevention of soil erosion and harvesting rainwater. Most of the gains registered by the State were due to their restoration of surface water bodies, watershed development activities and rural water supply provision.

Lakes and ponds are an intrinsic part of the eco system. A lake or pond is the Water Body which holds certain volume of water generally in all seasons of the year. Lakes and ponds have traditionally served the function of meeting water requirements of the people for drinking, household uses like washing, for agriculture, fishing and also for religious and cultural purposes. Apart from these functions, which involve direct use of the lake water, lakes, ponds are also known to recharge groundwater, channelize water flow to prevent water logging and flooding. Lakes are also host to a wide variety of flora and fauna. Urban Water Bodies are a very important feature in the landscape. They are vital in easing out the hydrological severe conditions like drought and floods; they influence the micro-climate as well as enhance the aesthetic beauty of the landscape and offer various recreational opportunities. The Water Bodies in urban areas provide a diversity of values and uses ranging from ecological goods and services to direct production values. These are essentially relevant social benefits. Therefore, the need to initiate efforts to restore, conserve, manage and maintain the lakes and ponds as an inseparable part of the whole ecosystem cannot be undermined.

1.1 Overview on Water Resources in Tamilnadu

Tamil Nadu constitutes 4 percent of India's land area and is inhabited by 6 percent of India's population but has only 2.5 percent of India's water resources. The demand for water in Tamil Nadu is increasing at a fast rate both due to increasing population and also due to larger per capita needs triggered by economic growth. The per capita availability of water resources, however, is just 900 cubic meters when compared to the national average of 2,200 cubic meters. Agriculture is the largest consumer of water in the State using 75 per cent of the State's water resources.

The State is heavily dependent on monsoon rains. The annual average rainfall is around 930 mm (47 percent during the northeast monsoon, 35 percent during the south west monsoon, 14 percent in the summer and 4 percent in the winter).

There are 1.7 major river basins in the State with 61 reservoirs and about 41,948 tanks. The utilizable groundwater recharge is 22,423 MCM. The current level of utilisation expressed as net ground water draft of 13.558 MCM is about 60 per cent of the available recharge, while 8875 MCM (40 per cent) is the balance available for use.

1.2 Rain Water Harvesting scheme

Tamil Nadu stands as an Pioneer State in strictly implementing the Rain water harvesting scheme. Due to the successful implementation of the scheme during the years 2001-2006, the ground water table had considerably increased in all corporation and Municipal areas.

To begin with, the implementation of the scheme was initiated as per G.O.138, MA&WS department, dated 11.2.2002. Further, to implement the scheme in a effective manner, a legal perspective was added vide Tami Nadu Government Law 4/2003 and it was notified in Government gazette dated 19.7.2003 as Part IV- section 2.

Intensive and widespread public awareness campaigns through rallies, dramas and advertisements are organized for people to emphasis and ensure that all the buildings are compulsorily provided with Rain water harvesting structures. Provisions have also made to disconnect water supply connection to the buildings without Rain water harvesting structures.

For the new buildings that are under construction, planning permission is given only to those buildings which have made provisions of Rain water harvesting structure and this is being enforced strictly. Also, caution deposit amount is collected to ensure the provision of Rain water harvesting structures in new buildings.

As per rule 63 of the Tamil Nadu Combined Development and Common Building Rules 2019 published vide G.O.18, MAWS Department dated 6.2.2019, provisions have been made to ensure that Rain water harvesting structure is provided in all the buildings. Besides this, illustrations for developing the Rain water harvesting infrastructures have been enclosed as Annexure-XXII in the Tamil Nadu Combined Development and Common Building Rules 2019.

Of the total no. of 47.39 lakh buildings existing in 20 Corporations (Excluding GCC) and 138 Municipalities, RWH structure has been provided in 43.31 lakh buildings(43.31 lakhs nos of Private buildings and including 37714 nos of Government Buildings). All possible efforts are being taken to implement water harvesting techniques in all the water bodies. Under **Jal Shakti Abhiyan** by the Government of India major thrust is being given to creation and maintenance of Rain Water Harvesting structures before the onset of South West Monsoon.

2. Comprehensive Action Plan on Restoration of Water Bodies

The Government of Tamil Nadu is taking continuous effort to protect the water bodies to sustain the ground water resource to fulfil the water requirement of present generation and future generation. The Honourable National Green Tribunal Court, Delhi also emphasizes the need of restoration of water bodies in view of the depletion of ground water sources in all over India and directed all the State and UT to submit Action Plan on Restoration of Water Bodies (vide NGT Order dated 10.05.2019 in M.A.No. 26/2019 in OA.No. 325 of 2015) to CPCB within the period of three month. In compliance to the NGT order the Central Pollution Control Board published the indicative Guidelines for Restoration of Water Bodies in June 2019.

The Government of Tamil Nadu has already taken initiatives to conduct survey to map all the minor irrigation tanks with the support of Government of India and the survey for mapping is in progress. It is planned to use the survey results for mapping the minor irrigation water bodies, and planned to designate the best use.of water bodies by conducting water sample test and by conducting the reconnaissance survey to overcome the influence of Sewage disposal, Industrial effluent disposal, Solid Waste, Plastic Waste and Construction Debris disposal. Accordingly, a comprehensive Action Plan is proposed for the effective and earlier completion of Restoration of Water bodies in Tamil Nadu.

3. Status report on Action taken to preserve the water bodies

As a progressive State, The Government of Tamilnadu takes effort to rejuvenate the water bodies periodically, as well as amend the required acts in time to Time. Total available 1,11,680 nos. of water bodies are being maintained by the Public works department(PWD), Rural Development(RD) , Hindu Religious and Charitable Endowment department (HR & CE), Municipal Administration department (DMA) Greater Chennai Corporation (GCC) and Commissionerate of Town Panchayats (CTP).The details are tabulated :

Department / Owners	Number of water bodies	Total Numbers of water bodies Rejuvenated		Total Number water bodies under rejuvenation	Total Number water bodies to be taken for rejuvenation
		Status as on 31.03.2024	Status upto 30.06.2024	Status as on 30.06.2024	
Greater Chennai Corporation	210	186	186	23	1
Directorate of Municipal Administration	739	339	339	197	0
Commissionerate of Town Panchayats	2212	1665	1665	213	334
Rural Development and Panchayat raj Department	91819	84644	84644	0	0
Public Works Department	14341	5711	5711	100	0
Hindu Religious and Charitable Endowment Department	2359	2210	2221	55	83
Total	111680	94755	94755	588	418

3.1 Greater Chennai Corporation

Greater Chennai Corporation has identified 210 water bodies in its jurisdiction which are under its own control. Out of these, restoration of 186 water bodies have been completed at an amount of Rs.102 crore under Chennai Smart City fund, CMCDM fund and CSR fund. The restoration works carried out, includes widening of the tank and deepening of the tank, bund formation, Toe wall, revetment, inlet and outlet arrangements, walkway and plantation.

The Restoration and Rejuvenation of 12 water bodies are in progress. During execution of the work the illegal sewer connection let into the tank are plugged and the works are in progress. Restoration of Villivakkam tank is being carried out in 25 acres at a cost of Rs.25 Crore. The storage capacity of the Villivakkam tank will be increased five times. The Restoration and Rejuvenation of 2 water bodies are proposed to be taken up in Chennai 2.0 scheme..

Commissioner, Greater Chennai Corporation has conducted a meeting with major corporate companies and welfare organizations for fund tie up for restoration of the balance 6 water bodies through CSR fund.

So far totally 4061 families have been identified as encroachers in the ponds/lakes. Action is being taken for resettlement and rehabilitation of these families Enumeration and biometric survey of these families is in progress. With this all 210 ponds will get restored maximum over a period of 12 months.

3.2 Chennai Rivers Restoration Trust

Chennai Rivers Restoration Trust has undertaken both wetland and water body restoration projects.

INTEGRATED COOUM RIVER ECO-RESTORATION PROJECT.

The Government of Tamil Nadu had granted Administrative Sanction of Rs.735.08 crores for implementation of the activities in the first phase of restoration of the Cooum river and works commenced in September, 2015.

All the line departments have commenced the execution of the sub-projects entrusted with them, viz., Desilting and river widening by Public Works Department; Solid waste removal, fencing, boom deployment and developing parks by the Greater Chennai Corporation; Removal of solid waste and fencing along the banks by Directorate of Municipal Administration, Directorate of Town Panchayats and Directorate of Rural Development and Panchayat Raj in their respective areas; Laying of interceptor pipelines & installing modular sewage treatment plants by Chennai Metropolitan Water Supply and Sewerage Board; Resettlement & Rehabilitation of Project Affected Families (PAFs) by the Tamil Nadu Slum Clearance Board and are under various stages of progress and the status of the progress as on June 2024 is detailed below:

Under Integrated Cooum River Eco restoration Project, desilting work by WRD was completed except the sustainable river mouth opening ie construction of curved training walls works are completed and formation of approach road and conveyance of desilted material is in progress. The formation of baby canal has been completed fully for 17.66 km. Thus far, 109517 MT of debris and garbage have been cleared from the banks and the work is fully completed by GCC, DMA & DRD. Fencing work has been fully completed for a length of 30.53.km out of a total length of 36.62 km. Out of a total identified 14257 Project Affected Families (PAFs) within the river boundary, 13484 PAFs have thus far been resettled. Regarding plugging of outfalls, out of 10 packages under Interception and Diversion pipelines, I&D - 9 packages – Nine completed; Nerkundram UGSS – work in progress – expected to be completed by April 2024. Modular STPs – 2 Packages –Two packages are completed; 1 TTUF (Tertiary Treatment Ultra Filtration) –100% of work completed and testing and trial operations in primary and secondary units were commenced from 31.08.2023 and tertiary treatment unit execution and instrumentation is in progress.

In the Adyar River Restoration Project from Origin to Mouth, the status of the progress as on June 2024 is detailed below:

Under this project, desilting the river has been completed for a length of 16.18 km and construction of flood protection wall completed for 1.556 km fully and 100% of desilting work completed in river mouth opening up to Thiru.Vi.Ka Bridge. Fencing has been completed for a length of 14.18 km out of 24.67 km by GCC, 1.52 km out of 1.52 km by DMA, both in CTP and DRD, out of 18.13 km in Kancheepuram District, fencing work fully completed in the available work front of 14.68 km. In Chengalpattu District, out of 11.07 km, fencing work for 8.8 km in the available work front was completed. Park works near Kotturpuram 100% completed. 42429 saplings planted from Thiru. Vi. Ka Bridge to Kotturpuram Bridge along banks of Adyar River and plantation work started Airport runway to Nandambakkam Bridge (400 plants planted). Accumulated solid waste within the river boundary limits of GCC was completely cleared and 8797 MT thus far cleared from the banks of DMA & DRD. Work on beautification of 4 bridges and deployment of 3 booms fully completed. Regarding plugging of outfalls and Modular STP, 7 packages have been fully completed and works are completed in the Modular STPs at Kundrathur (0.8 MLD). Out of 9,539 Project Affected Families (PAFs) totally identified within the river boundary, 5051 PAFs have thus far been resettled from 19 habitation and 4488 PAFs from 10 habitation to be relocated.

3.3 Directorate of Municipal Administration

There are 20 Corporations (except Chennai Corporation) and 138 Municipalities being administered with 739 municipal owned water bodies across 37 districts. There are 1989 water bodies located within the Municipal/Corporations limit and are being maintained by the concerned Departments. Of the 739 numbers of Municipal owned water bodies, 289 no of water bodies have been restored by the concerned urban local bodies at a total estimated cost of Rs. 60 crore with restoration activities such as De-silting, De-

weeding and strengthening of bunds etc., to receive the water during rainy season and to preserve it for recharging the ground water storage as Rain Water Harvesting Structures. Under Smart City Mission, 7 lakes in Coimbatore Corporation have been taken up for rejuvenation at an estimated cost of Rs.353.90 crore and all the works has been completed. In this connection, about 12500 encroachments have been identified of which 10500 encroachment have been cleared and their families have been rehabilitated in the 14 slum clearance housing colonies. Further in Salem Corporation two ponds have been taken up for restoration at an estimated cost of Rs.23.19 crore under Smart City Mission and the works are in progress. In Thanjavur Corporation four ponds have been taken up for restoration at an estimated cost of Rs. 15.59 crore under Smart City Mission and the works are completed in two ponds. In balance two ponds, works are in progress.

Under the Kfw fund, 30 water bodies have been taken up for rejuvenation in 5 (Pattukottai ,Pudhukotai, Nagapattinam, Ariyalur and sattur) urban local bodies at the cost of Rs.38 crore and in Erode Corporation water bodies rejunevation is taken under Kfw at an estimated cost of Rs.5.95 cr.

Under Tamilnadu Sustainable Urban Development Programme, 2 water bodies in Pallavapram Municipality has been taken for rejuvenation at an estimated cost of Rs. 14.98 crore and the works are completed.

Under KNMT -2021-22, 87 nos of water bodies taken up to the estimate cost of Rs 98.71 crore, under KNMT 2022-23, 76 nos of water bodies taken up at an estimate cost of Rs 37.37 crore, under KNMT 2023-24, 28 nos of water bodies taken up at an estimate cost of Rs.18.61 crore. As on date in respect of rejuvenation works 132 water bodies have been completed and remaining works in progress.

Under KNMT 2024-25, 32 no. of water bodies taken up at on estimate cost of Rs.49.07 crore.

Under AMRUT 2.0 -(2021-22 to 2025-26) 186 no. of water bodies taken up to the estimate cost of Rs.131.67 crore out of which 89 water bodies have been completed and the remaining 97 water bodies works are under progress.

3.4 Commissionerate of Town Panchayats

There are 2212 number of water bodies belongs to the total of 490 Town Panchayats in 37 Districts, out of which 1182 water bodies have been restored by the concerned Urban Local Bodies in the last five years. These water bodies are restored with basic restoration activities such as desilting, de-weeding and strengthening of bunds etc to receive the water during rainy season and to preserve it for recharging the ground water storage as Rain Water Harvesting structures. Presently 696 water bodies have been takenup for restoration under various schemes out of which 483 water bodies have been completed and the remaining 213 water bodies are in progress. Balance 334 water bodies will be restored in phased manner in due course.

3.5 Rural Development and Panchayat raj Department

Owner	No. of water bodies available	No. of water bodies Rejuvenated
Rural Development and Panchayat Raj Department (RD & PR)	91,819	69,768

The Rural Development Department has conducted field survey to assess the number of water bodies available under the control of Rural Development Department. The Rural Development Department is now having **22,051** numbers of Minor irrigation tank and **69,768** numbers of Ponds & Ooranies across 37 districts. Of the **91,819** numbers of water bodies, 1200 water bodies have been restored at an estimated cost of Rs.300 crore under Tamil Nadu Village Habitations Improvement (THAI)-II Scheme in the year 2016-17 and only partial restoration has been done using unskilled manual labour for the 50,796 MI Tanks, Ponds and Ooranies at a total expenditure of Rs.6339.49 crore was paid as wages to the MGNREGS workers in the past 5 years.

Under Kudimaramathu Scheme for the year 2019-2020, Rural Development Department was sanctioned to restore/renovate 5,000 Minor Irrigation tanks and 25,052 ponds/Ooranies under State funds to the tune of Rs.500 Crores in convergence with MGNREGS, wherein de-silting and deepening of the water bodies and strengthening of bunds has been done by engaging machineries and the reconstruction of appurtenances like Inlets, outlets, sluices, surplus weirs etc., has been done under MGNREGS, to the tune of Rs.750 Crores.

Under Kudimaramathu Scheme, **28,623** water bodies consisting of **4,984** Minor Irrigation tanks and **23,639** Ponds and Ooranies has been rejuvenated.

Under State Finance Commission Grant (SFC) 2019-20, **3312** water bodies consisting of 266 M.I Tank works and 3,046 Ponds & Ooranies works were completed.

Under Re-implementation of Anaithu Grama Anna Marumalarchi Thittam-II -**2198, 1745, 1316 and 116** water bodies were renovated during the year 2021-22, 2022-23, 2023-24 and 2024-25 respectively. Under Mahatma Gandhi National Rural Employment Guarantee Scheme (Amrit Sarovar) **743** water bodies were renovated in the year 2022-23.

3.7 Hindu Religious and Charitable Endowment Department

Temple tanks have been an integral part of ancient Tamil settlements. There are 2,359 tanks maintained by the temples under the control of the HR&CE Department. The temple tanks are being protected by clearing the encroachments in and around the temple tanks, constructing compound wall, de-silting the tanks, relaying the steps of the tanks and by providing facility for the inflow of rainwater and overflow channels for surplus water.

Out of these 2,359 tanks, 1068 tanks were identified for renovation while remaining 1291 tanks are in good conditions. During the past 8 years this department has repaired, renovated and rejuvenated 849 temple tanks. The Encroachment on temple tanks dumping of garbage and debris, illegal settlement on temple tanks bunds, blockage of inflow of water, mixing of sewage water are some of the hurdles that need to be overcome while taking up restoration and renovation of temple tanks, Further 55 water bodies completed in the past six months. At present 83 water bodies taken for rejuvenation and in progress.

3.8 Rejuvenation of polluted river stretches

Tamil Nadu has identified Six River stretches namely Sarabanga, Thirumanimutharu, Vasista, Cauvery Bhavani & Thamirabarani based on the level of BOD Priority I to V has been fixed.

As per the Hon'ble NGT (PB) directions to prepare action plans to bring all the polluted river stretches to be fit at least for bathing purposes. River Rejuvenation Committee (RRC) was constituted in Tamil Nadu vide G.O.(D) No.372 dated 26.12.2018 comprising with the members Industries Commissioner, Commissioner Municipal Administration, Director of Environment and Member Secretary of Tamil Nadu Pollution Control Board.

The revised action plans for the four polluted river stretches in priority-I (River Sarabanga, Vasista, Thirumanimutharu & Cauvery) were prepared including gap analysis and submitted to CPCB, Delhi on 18.04.2019 after the approval of the River Rejuvenation Committee (RRC) and the same was recommended with conditions by the CPCB Task Team in the 5th review meeting held on 24.04.2019. Also, the revised action plans for the two polluted river stretches in priority-IV & V (River Bhavani & Thamirabarani) were also prepared and submitted to CPCB, Delhi on 29.05.2019 before the Hon'ble NGT (PB) and the action plan for Priority-I & IV was approved by CPCB. The Action Taken Report on these six river stretches has been submitted to TNPCB on monthly basis and National Mission for clean Ganga is conducting Central Monitoring Committee Meeting on every month.

TIME FRAME /Action Plan for Rejuvenation of Water bodies - Phase I Data Collection and Mapping		
Collection of Historical data, Geographical data, Geological data, pollution & contamination data in respect of sewage disposal, industrial effluent disposal, solid waste, plastic, e waste, Hazardous waste, C& D waste disposal and mapping the data for all the water bodies	Water bodies wise the (1) Location with GPS(2) Area & Dimension (3) ownership (4) allocation of unique identification number (5) (6) details of habit,(7) details of inflow / outflow, evaporation, flooding frequency	Sewage disposal contamination data is being collected and Mapping Process is under progress.
TIME FRAME /Action Plan for Rejuvenation of Water bodies - Phase II Gap Analysis		
Declaring the Designated Best use of water bodies and ascertain the quality of water as per standard and survey to identify the source of pollution and prepare long term preventive measures through Detailed Gap analysis on sewage management , industrial effluent management , and Solid waste Management and other associated issues	(8) Presences of major plant and animal communities, (9) Designated Use of Pond or Lake (Drinking /Irrigation/ Aqua culture/ Tourism/Protected Bio Diversity (10) Major outfall details (11) Physical conditions of the water body 912 Water quality (13) Status of sewage management in the Catchment area (14) Status of Industrial Effluent management in the Catchment area (15) Status of solid waste, plastic waste , C& D waste management in the Catchment area and water body.	

TIME FRAME /Action Plan for Rejuvenation of Water bodies. - Phase III & Phase IV Preparation of Detailed Project Report & Implementation		
Preparation of Detailed Project Report to Restoration the water bodies by preventing the entry of sewage in to water bodies to increase the capacity of tank, strengthen the bund and improving the other amenities based on the local requirement, Removal of Encroachment, flood control measures, tendering, execution, and good governance .	(16) Measures taken by preparing DPR, Estimate Preparation , Tendering and Execution of work	So far 94,755 numbers of water bodies have been restored and 588 are in progress. For the remaining water bodies will be restored before 31.12.2024.

Thematic Area: 15. Coastal Pollution (O.A.829 of 2019)

Thematic Area :3(X)	Coastal Pollution		
Current Status	Desirable Level	Gap	Proposal for attending gap
(1) As per the directions of the Hon'ble National Green Tribunal (NGT) dated 17.9.2019, no sewage or industrial pollution is discharged in coastal waters and CPCB may file latest status report on the subject in O.A. No 673/2018. The District Magistrate may also cover the subject of coastal and marine pollution in the District Environmental plan to be prepared and furnish reports to the Chief Secretary. The Chief Secretary may also include the subject in their monitoring and in the reports furnished in O.A. No 606 of 2018.	Instructions issued to the field officers of TNPCB and the District Collectors concerned of the Coastal districts to issue necessary instructions to the concerned responsible authorities for the stoppage of sewage or industrial discharges and to include "Prevention of Coastal and Marine Pollution as one of the subjects to be dealt by the District Level committee and prepare the District Environmental plan for marine pollution and include the same in the comprehensive plan and the compliance has to be submitted by the District Collectors to the Chief Secretary.	Nil	<p>The stoppage of sewage or industrial discharges into the coastal or marine system and to include the "Prevention of Coastal and Marine Pollution is one of the subjects to be dealt by the District Level committee. In coastal areas illegal discharges were stopped, the Hon'ble NGT order is complied.</p> <p>All the details are collected from the coastal districts of Tamil Nadu and consolidated report was sent to Central Pollution Control Board on 31.12.2019 within the stipulated period of Hon'ble NGT direction.</p> <p>TNPCB vide letters dated 12.08.2020 and 06.10.2020 addressed to line Departments namely, Commissioner of Municipal Administration, Director of Town Panchayat, Rural Development and Panchayat Raj, Public Works Department, TWAD Board and CMWSSB requested to furnish the compliance report and the same was received from CMA and CMWSSB</p>
(2). As per the directions of the Hon'ble National green Tribunal (NGT), dated 3.12.2019, all State PCB's/PCCs of coastal States/UTs may give relevant information's to CPCB within one month from the date of	The required details such as categorization of coastal areas, status of sewage generation, its treatment and disposal off in coastal areas as per the format prepared by CPCB has to be collected from the coastal districts of Tamil Nadu and has to be compiled.	Nil	<p>The Master sheet for the location of all the coastal districts in Tamil Nadu was prepared and submitted to CPCB.</p> <p>The Government of Tamil Nadu has issued orders vide GO. (Ms) No.193 ECC & F Dept. dt. 27.10.23 to allot the work of preparation of Action Plans to the National Centre for Coastal Research, Chennai and the work is under progress.</p>

Thematic Area :3(X)	Coastal Pollution		
Current Status	Desirable Level	Gap	Proposal for attending gap
<p>order.</p> <p>(3).The Hon'ble NGT vide its order dated 29.6.2020 in O.A. 829 of 2019 on Coastal and marine pollution has directed that all States/UTs through their concerned departments such as Urban/Rural development, Irrigation & Public Health, Local Bodies environment etc, may ensure formulation and execution of plans for sewage treatment and utilization of treated sewage effluent with respect to each city, town, village, adhering to the timeline as directed by Hon'ble Supreme Court STPs must meet the prescribed standards, including Faecal Coliform.</p>	<p>The details such as treatment of sewage /effluent must be ensured 100% and strict coercive action for any violation to enforce rule of law.</p>	<p>The Sewage generation in Tamil Nadu is 3938 MLD. About 3573 MLD is treated. Gap is 365 MLD only.</p>	<p>All the local bodies in Tamil Nadu have been insisted to provide adequate treatment systems for sewage treatment and disposal. proposals are being evolved by the Local Bodies to bridge the gap of treatments. The subject is being reviewed by the Additional Chief Secretary, Environmental, Climate Change and Forests Department and Chief Secretary to Govt. periodically.</p>


Joint Secretary to Government
 Municipal Administration And Water Supply Department
 Secretariat, Chennai - 600 009.



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Quarterly report for June -2024

S.N.	Questions	Remarks			
1	Numbers of RLBs	12525			
2	Over all waste management status in States/UTs				
a	Quantity of MSW generated (TPD)	1965			
b	Quantity of MSW collected (TPD)	1906			
c	Quantity of MSW segregated & transported (TPD)	1810			
d	Quantity of MSW processed (TPD)	1810			
e	Quantity of MSW disposed in secured land fill site (TPD)	0			
f	Gap in Solid Waste Management UTs (TPD) [1(a)-I(d)- 1(e)]	155			
g	Solid Waste Management Plan	Yes			
3	Waste Collection	Existing	Target	Gap	Timeframe
a	RLBs in which waste door-to-door collection is implemented(No.)	12525	12525	0	Completed
b	RLBs in which segregation of waste is implemented (No.)	12525	12525	0	Completed
c	RLBs in which transportation of segregated waste is implemented (No.)	12525	12525	0	Completed
4	Waste Processing				
	Material Recovery facilities				
a	(i) Total Capacity (TPD)	12525	12525	0	Segregation sheds have been constructed in all the 12525 village panchayats
	(ii) Number	0	0	0	
	(iii) Number of RLBs covered	0	0	0	
	Recycling				
b	(i) Total Capacity (TPD)	0	0	0	
	(ii) Number	0	0	0	
	(iii) Number of RLBs covered	0	0	0	
	Composting				
c	(i) Total Capacity (TPD)	0	0	0	
	(ii) Number	12525	12525	0	Compost pits constructed in all the 12525 village panchayats
	(iii) Number of RLBs covered	12525	12525	0	
	Biomethanation				
d	(i) Total Capacity (TPD)	20.26	-	-	
	(ii) Number	21	37	16	
	(iii) Number of RLBs covered	-	-	-	

e	RDF				
	(i)	Total Capacity (TPD)	0	0	0
	(ii)	Number	0	0	0
	(iii)	Number of RLBs covered	0	0	0
f	Waste to Energy Plants				
	(i)	Total Capacity (TPD)	0	0	0
	(ii)	Number	0	0	0
	(iii)	Number of RLBs covered	0	0	0
4	Waste Disposal				
a	Landfill				
	(i)	Total Capacity (T)	0	0	0
	(ii)	Number	0	0	0
	(iii)	Number of RLBs covered	0	0	0
5	Legacy Waste management				
a	Number of dumpsites (No.)	0			
b	Quantity of Waste dumped at dumpsites (Tons)	0			
c	Number of dumpsites cleared (No.)	0			
d	Number of dumpsites in which biomining has commenced (No.)	0			
e	Time frame for clearing all dumpsites	Nil			
6	Other Information				
a	Information regarding development of model towns/cities/villages	0			
b	Creation of Environmental cell				
c	Standardization of rates for procurement of services/equipment (to do away with the tendering process) required for solid waste management				

Improvements Since Last Hearing				
	Item	Present Status	Status at the time of last hearing	Whether directed timelines have been adhered or not ?
1	Door-to-door collection (%)	100%	100%	Yes
2	Source segregation of waste (%)	70%	70%	Yes
3	Waste Processing (TPD)	92%	92%	Yes
4	Dumpsites capped (No.)	-	-	-
5	Dumpsites Bio-remediated (No.)	-	-	-

Format for Solid waste Management - June 2024

S.No	Questions	Remarks			
1	Numbers of ULBs	649			
2	Over all waste management status in States/UTs				
a	Quantity of MSW generated (TPD)	15545			
b	Quantity of MSW collected (TPD)	15234			
c	Quantity of MSW segregated & transported (TPD)	13213 MT Segregated, Collected and Transported 2332 MT of unsegregated waste collected and Transported			
d	Quantity of MSW processed (TPD)	11,177			
e	Quantity of MSW disposed in secured land fill site (TPD)	0			
f	Gap in Solid Waste Management UTs (TPD) [1(a)- 1(d)- 1(e)]	4368			
g	Solid Waste Management Plan	Yes			
3	Waste Collection	Existing	Target	Gap	Timeframe
a	ULBs in which waste door-to-door collection is implemented(No.)	649	649	0	100% Door to Door collection will be achieved by 31.12.2024
b	ULBs in which segregation of waste is implemented (No.)	649	649	0	
c	ULBs in which transportation of segregated waste is implemented (No.)	649	649	0	
4	Waste Processing				
a	<u>Material Recovery facilities</u>				
	(i) Total Capacity (TPD)	2648	3258	610	
	(ii) Number	1138	1322	184	
	(iii) Number of ULBs covered	649	649		
b	<u>Recycling (Incineration Plant)</u>				
	(i) Total Capacity (TPD)	390	756	366	
	(ii) Number	19	34	15	
	(iii) Number of ULBs covered	-	-	-	
c	<u>Composting</u>				
	(i) Total Capacity (TPD)	3803	4260	457	
	(ii) Number (MCC)	1051	1170	119	
	(iii) Number of ULBs covered	649	649		
d	<u>Biomethanation</u>				
	(i) Total Capacity (TPD)	259	259	0	Completed
	(ii) Number	107	107	0	Completed
	(iii) Number of ULBs covered	67	67	0	Completed

S.No	Questions	Remarks			
e	<u>RDF</u>				
	(i) Total Capacity (TPD)	0	0	0	
	(ii) Number	0	0	0	
	(iii) Number of ULBs covered	0	0	0	
f	<u>Waste to Energy Plants</u>				
	(i) Total Capacity (TPD)	0	0	0	
	(ii) Number	0	0	0	
	(iii) Number of ULBs covered	0	0	0	
4	Waste Disposal				
a	<u>Landfill</u>				
	(i) Total Capacity (T)	0	0	0	
	(ii) Number	0	0	0	
	(iii) Number of ULBs covered	0	0	0	
5	Legacy Waste Waste management				
a	Number of dumpsites (No.)	291			
b	Quantity of Waste dumped at dumpsites (Cu.m)	224 Lakhs Cu.m			
c	Number of dumpsites cleared (No.)	187			
d	Number of dumpsites in which biomining has commenced (No.)	102			
e	Time frame for clearing all dumpsites	The Biomining works sanctioned under SBM 2.0 are expected to completed by Dec 2024. Biomining work (Kodangaiyur) in Greater Chennai Corporation is in progress and will be completed by Oct 2026.			
6	Other Information				
a	Information regarding development of model towns/cities/villages	Report submitted for 3 Cites, 7 Towns and 93 Model villages			
b	Creation of Environmental cell				
c	Standardization of rates for procurement of services/equipment (to do away with the tendering process) required for solid waste management	The rate for procurement of equipment is based on the GeM portal and approved by State High Powered committee.			

Improvements Since Last Hearing					
S.no	Item	Present Status	Status at the time of last hearing	Whether directed timelines have been adhered or not ?	
1	Door-to-door collection (%)	98%	98%	Yes	
2	Source segregation of waste (%)	85%	85%	Yes	
3	Wet Waste Processing (TPD)	82%	82%	Yes	
4	Dumpsites capped (No.)			-	
5	Dumpsites Bio-remediated (No.)	187	171	Yes	

FORMAT FOR SEWAGE MANAGEMENT

Sl. No.	Action Point	A	B	C=A-B	D
		Existing status	Desired/ Projected (2035)	Gap	Timeline
1.	Estimated Sewage Generation	1698.73	3600.00	N/A	
2.	Treatment Capacity (Projection for 05years to be taken into consideration)	1252.57	1320.62	-	-
3.	Status of Sewerage System (in Km)	5572.69	-	-	-
4.	No. of STPs (Details to be provided as per Annexure)	70	20	-	-
5.	Has bulk users identified for reuse of treated Water such as Industrial Clusters, Metro Rail, Indian Railways, Infrastructure Projects, Agriculture, Bus Depots and PWD? (Y /N)	Yes	-	-	-
6.	Quantity of treated wastewater being used by Bulk User (in MLD)				
	Industrial Clusters,	44.00 (Agreement signed for Sale of Treated water)	-	-	-
	Metro Rail,	-	-	-	-
	Indian Railways,	-	-	-	-
	Infrastructure Projects,	-	-	-	-
	Agriculture,	36.50	-	-	-
	Bus Depots and PWD.	-	-	-	-
7.	No. of Water Aquatic Sources (Lakes, Pond, etc.) being developed through treated wastewater	-	-	-	-

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FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

S. No	City / Town	No. of STP	Location of STP	Coordinates of STP (Latitude and Longitude)	STP Commissioned in (Year)	Status (Operational / Non-Operational / Under Construction)	STP Installed Capacity (in MLD)	Actual Utilization of installed Capacity (in MLD)	Technology (UASB/ ASP/ OP/ SBR/ MBR / FAB Etc.,)	Consent Status	Compliance Status			
											Ph	TSS	COD	BOD
1	Coimbatore	4	Ukkadam	Lat : 10.98315765 Lon : 76.97252296	2012	Operational	70	35	SBR	Renewal Under Progress	7.5	.9	36	8
			Ondiputhur	Lat : 10.9871063 Lon: 77.001327	2017	Operational	60	3	SBR	CTO Obtained	7.2	8	32	6
			Coimbatore - Nanjudapuram	Lat : 10.986953, Lon : 77.001721	Yet to be commissioned	Under trial run	40	9	SBR	CTO Obtained	Under Trial Run			
			Coimbatore - Kuruchi & kuniyamuthur	Lat: 10.5802, Lon: 77.0140	Yet to be commissioned	Under trial run	30.53	-	SBR	CTO Obtained	Under Trial Run			
2	Vellore	1	Muthumandapam	Lat :12.932166 Lon: 79.135616	2015	Operational	10.28	8	ASP	CTO Applied	7.4	24	176	18
3	Dindigul	1	Ponmandurai Pudupatti	Lat:10.35°N, Lon:77.95°E	06.11.2013	Operational	13.65	4	ASP	CTO Obtained	7.8	26	112	18

S. No	City / Town	No. of STP	Location of STP	Coordinates of STP (Latitude and Longitude)	STP Commissioned in (Year)	Status (Operational / Non-Operational / Under Construction)	STP Installed Capacity (in MLD)	Actual Utilization of installed Capacity (in MLD)	Technology (UASB/ ASP/ OP/ SBR/ MBR/ FAB Etc.,)	Consent Status	Compliance Status			
											Ph	TSS	COD	BOD
4	Tiruchirappalli	2	Panjapur	Lat - 10.45'6" Long - 78.39'32"	30.09.2007	Operational	58	58	WSP	CTO Applied	7.34	42	64	6
			Trichy STP 2	Lat - 10.77349 Long - 78.71916	Yet to be commissioned	Under trial run	37	-	SBR	CTE & CTO obtained	Under Trial Run			
5	Avadi	1	Mukthapudupet	13.149045, 80.059462	July 2017	Operational	4	2	SBR	CTO Obtained	7.52	8	72	7.9
	Avadi	1	Paruthipattu	13.109928, 80.104318	September 2021	Operational	36	8	SBR	CTO applied	7.77	10	96	8
6	Madurai	2	Sakkimangalam & Avaniyapuram	Sakkimangalam Lat: 9.899924 Long: 78.190997 Avaniyapuram Lat: 9.871233 Long: 78.10473	01.03.2011	Operational	170.7	39	SBR	CTO Obtained	7.88	12	64	13
7	Tirunelveli	1	Ramaiyampatti	8.7568547 77.6829877	2007	Operational	24.2	10.50	WSP	CTO Obtained	7.35	810	144	46
8	Thanjavur	1	Salaikara Street	10.78512 79.157975	26.02.2003	Under Renovation	28.05	14.00	ASP	CTO Obtained	7.39	24	88	10

S. No	City / Town	No. of STP	Location of STP	Coordinates of STP (Latitude and Longitude)	STP Commissioned in (Year)	Status (Operational / Non-Operational / Under Construction)	STP Installed Capacity (in MLD)	Actual Utilization of installed Capacity (in MLD)	Technology (UASB/ ASP/ OP/ SBR/ MBR / FAB Etc.,)	Consent Status	Compliance Status			
											Ph	TSS	COD	BOD
9	Tiruppur	1	Sarkar periyapalayam	11o08'02"N, 77o24'45"E	01.09.2009	Operational	15	8.5	EASP	CTO Obtained	7.8	12	40	12
	Tiruppur	3	Expansion of existing	11.132139 77.414716	-	Under Trial Run	15	-	EASP	Existing CTO Can be adopted	Under Trial Run			
			Tiruppur Sarkar periyapalayam	11.132139 77.414716	-	Ready To trial run	36	-	SBR	CTO Obtained	Under Trial Run			
			Chinnandipalayam	11.100991 77.293507	-	Ready To trial run	20	-	SBR	CTE obtained,CTO - Amount Paid to TNPCB, under scrutiny in progress	Under Trial Run			
10	Erode	1	Peelamedu	NL 11'20'18' EL 77'44'22'	22.12.2018	Operational	50.55	25	MASP	CTO Obtained	7.57	20	115	10
11	Salem	1	Vellakuttai	11°39'14" N - 78°10'12" E	01.03.18	Operational	13	12	MBBR	CTO obtained	7.94	120	384	96
		1	Anaimedu	Anaimedu - 11°39'42" N - 78°9'52"E	01.03.19	Operational	6	5	FAB	CTO applied on 25.04.22	7.65	40	312	64
		1	Mankuttai	Mankuttai - 11°40'7" N - 78°7'35"E	29.08.20	Operational	35	29	FAB	CTO obtained	7.11	64	128	24

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											Ph	TSS	COD	BOD
		1	Vandipettai	11°39'0" N - 78°8'33"E	Partially Commissioned	Under trial run	44	-	FAB	CTE obtained	Under trial run			
12	Cuddalore	1	Devanampattinam	11.753832 79.780407	2016	Operational	12.25	6.7	ASP	CTO Obtained	7.97	14	96	22
13	Kanchipuram	1	Nathapettai	12.828724 79.722854	1972 Renovated scheme - 2011 April	Operational	14.7	14.7	WSP	CTO Obtained	7.2	30	109	25
14	Maraimalai Nagar	1	Adigalar salai	Longitude-80.03006 Latitude-12.79923	28.02.2011	Operational	2.2	2.2	EASP	CTO Applied Awaiting for PCB inspection	6.86	3.42	95.68	38.27
15	Tiruvallur	1	Sivam Nagar	Latitude: 13.12118 Longitude: 79.9259	17.2.2017	Operational	6.2	5.5	MBBR	Application pending due to NGT case	7.17	16	88	4
16	Thiruvannamalai	1	Manalurpet Road	Latitude-12.21663355 Longitude-79.06861122	2014	Operational	8.7	5.1	ASP	CTO obtained	6.4	48	214	32

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											Ph	TSS	COD	BOD
17	Viluppuram	2	Kakuppam	Lat:11.957374 Lon:79.504349	26.06.2014	Operational	12.5	9.8	ASP	CTO obtained	7.2	12	72	11
			Erumanthangal	Lat - 11.944019 Lon - 79.514268						CTO obtained	7.2	12	72	11
18	Arakkonam	1	Silverpet	Silverpet 13.110069'N 79.698920'E	Trial run commenced from 15.11.2019	Operational	11.04	4	ASP	CTO obtained	7.79	18	193	15
19	Bodinayakkanur	1	Bodinayakkanur	Lat - 10.0179204, Lon - 77.3590704	27.2.2019	Operational	12.08	4.2	ASP	CTO Obtained	7.5	16	40	12
20	Chinnamanur	1	Chinnamanur	Latitude- 9.850333 Longitude- 77.385067	01.04.2012	Operational	3.99	3.72	ASP	CTO Obtained	7.39	32	96	14
21	Periyakulam	1	Periyakulam	Latitude- 10.1256415 Longitude- 77.561725	2017	Operational	5.47	4	ASP	CTO Obtained	7.12	24	120	17
22	Ramanathpuram	1	Kalugoorani (Village)	Lat :9.369763, Lon : 78.830838	06.11.2013	Operational	7	6.5	MASP	CTO Obtained	7.25	8	80	7

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											Ph	TSS	COD	BOD
23	Theni-Allinagaram	1	Karuvelnayakan - Patti, Theni (Veeranayakan Patti)	9.999, 77.502	08.06.2015	Operational	12.05	9.5	ASP	CTO Obtained	7.5	36	72	10
24	Dharmapuri	1	Chettikarai	12°9'1.85" N 78°10'50.14" E	05.07.2014	Operational	4.86	3.9	ASP	CTO Obtained	7.04	28	176	19.5
25	Karur	1	Arasu Colony, Panchama devi Village	latitude : 10.97 997, Longitude: 78.09 548	30.04.2007	Operational	15	6.5	EAP	CTO obtained	7.11	26	71	24
26	Krishnagiri	1	Derasamuthiram Eri	Latitude 2 30'25.48" N &Longitude 78 30'25.48" E	15.7.2017	Operational	12.34	8	ASP	CTO Renewal Under progress	7.45	26	128	16.5
27	Namakkal	1	Sendamangalam road	11.13'33" N 78.10'23" E	01.10.2014	Operational	5	6.2	ASP	CTO Obtained	6.39	36	76	28
28	Mettur STP-1	3	Thangamapuripattinam	Latitude-11.47'37" Longitude-77.49'07"	Aug-19	Operational	0.823	0.354	ASP	CTO obtained	6.5	20	50	12
	Mettur STP-2		Salem Camp	Latitude=11.47'20" Longitude-77.47'45"	Jan-19	Operational	0.924	0.314	ASP	CTO obtained	7	20	45	11

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											Ph	TSS	COD	BOD
	Mettur STP-3		Komburankadu	Latitude :11.46'60" Longitude: 77.47'01"	May-19	Operational	5.452	2.834	ASP	CTO obtained	7.2	22	45	15
29	Kumbakonam	1	Karikulam	10°58'22.09"N 79°24'48.55" E	2009	Operational	17	13.5	ASP	CTO available	7.37	102	48	29
30	Nagapattinam	2	Nagapattinam	Lat: 10.757905 Long: 79.834479	27.02.2016	Operational	9.63	5.5	ASP	CTO Renewal Under progress	8.6	14	32	8
			Nagore	Lat: 10.822428 Long: 79.844813	31.05.2019	Operational	2.69	1.03	EASP	CTO Renewal Under progress	7.3	26	96	14
31	Tiruvarur	1	Tiruvarur	NL 10°48'29" EL 79°38'17"	01.10.2014	Operational	6.92	4.1	ASP	CTO Renewal Under progress	7.35	37	80	20
32	Ariyalur	1	Keezhapalur village	11° 04'06.9"N 79° 03'19.8"E	12.10.2020	Operational	4.16	1.8	ASP	CTO Renewal Under progress	7.69	26	28	17
33	Pudukkottai	1	Maaruppurani	Latitude : 10'21'36" North Longitude: 78'48'33' East	27.7.2016	Operational	10.62	8.5	ASP	CTO available	7.36	66	104	27

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											Ph	TSS	COD	BOD
34	Mayiladuthurai	1	Aarupathi	Latitude : 11.6'21" North Longitude: 79.40'22" East	01.01.2008	Operational	5.85	5.85	WSP	CTO Renewal Under progress	7.9	20	40	8
35	Perambalur	1	Neduvasal road, Thuraimangalam road.	Lat . 11.1410.9 N Long, 7852 57. E	06.11.2013	Operational	4.2	3.6	ASP	CTO Renewal Under progress	7.68	48	168	27
36	Udhagamandalam	1	Kasthooribai colony	Lat - 11.408436 Lon - 76.679469	15.04.2000	Operational	5	4	ASP	CTO to be Obtained	7.73	32	272	48
37	Udumalaipet	1	Kurinjeri	Lat - 10.59812 Lon - 77.25447	30.06.2016	Operational	7.81	4.85	ASP	CTO Obtained	7.26	28	130	24
38	Virudhunagar	1	Virudhunagar	Lat -9.5654 Long-77.9603	19.10.2014	Operational	7.65	3.8	ASP	CTO obtained on 21.07.23	6.33	12	16	8
39	Chidambaram	1	Ambalathadikuppam	Lat -11.421 Long- 79.6889	2020	Operational	9.44	6.8	ASP	CTO obtained	7.53	26	132	15.2
40	Thirupathur	1	Georgepettai	Lat - 12°29'.05.540" N Long - 78°34'.25.101" E	2020	Operational	11.43	4	ASP	CTO obtained	8.33	26	208	8

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											Ph	TSS	COD	BOD
41	Rasipuram	1	Dhobi colonyn	Lat -11.453 Long- 78.189	2021	Operational	6.96	3.5	ASP	CTO obtained	7.1	16	45	18
42	Sivagangai	1	Muthupatti	Lat -9.50 Long- 78.27	2020	Operational	4.92	2	EASP	CTO to be obtained	7.69	15	150	18
43	Sathyamangalam	1	Kombupallam	Lat -11.3 Long- 77.14	2021	Operational	4.08	1	FAB	CTO obtained	6.6, 27, 72, 12			
44	Tamparam	1	Mannuram Kulam	Lat -12.92 Long- 80.10	2021	Operational	30	14	SBR	CTO obtained on 11.08.2023	Under Trial Run			
45	Thoothukudi	1	Tharuvaikulam	Lat -8.87 Long- 78.15	2022	Operational	28	9	ASP	CTO to be obtained	7.7	46	29	10
46	Ulundhurpet	1	Moolasamudram	Lat -11.69 Long- 79.28	2022	Operational	3.15	0.49	EASP	CTO obtained	Under Trial Run			
47	Thiruchendhur	1	Thoppur	Lat -8.49 Long- 78.11	2020	Operational	3.9	2.0	EASP	CTO obtained on 24.04.23	7.8	20	123	7
48	Mettupalayam	1	Sikkadasampalayam	Lat -11.3 Long-76.96	-	-	8.65	0.70	SBR	CTO applied	Under Trial Run			

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											Ph	TSS	COD	BOD
49	Pollachi	1	Market Road	Lat -10.39 Long -76.59	2022	Operational	11.25	2.9	SBR	CTO applied	Under Trial Run			
50	Karaikudi	1	Karaikudi	Lat - 10.039868 Long - 78.762138	2023	Operational	16	1.7	ASP	CTO applied	7.8	14	34	12
51	Nagerkoil	1	Valampuri vilai	Lat - 8.1632 Long - 77.4347	2023	Under trial run	17.66	-	EASP	To Be Apply	Under trial run			
52	Rajapalayam	1	Malaiyadi Patti	Lat - 9.4543N Long- 77.5794E		Under trial run	21.85	-	SBR	CTO obtained on 02.07.2023	Under Trial Run			
53	Sattur	1	Minmini Road	Lat -9.35 Long -77.93	2022	Operational	4.65	1.5	ASP	CTO obtained on 07.04.2022	8.5	19	48	18
54	Ambur	1			2014	Under trail run	16.71	-	MBBR		Under Trial Run			
						Total	1252.57	498.47						

S. No	Name of the ULB	Quantity (in MLD)	Usage/ Purpose
1	Nagapattinam	2.00	M/s KVK Power for cooling purpose
2	Dindugul	5.00	To maintain the TDS level of Tanners as well for Agro- forestry.
3	Tirunelveli	24.00	Nanguneri SEZ for Industries
4	Perambalur	3.00	MRF Industrial use
5	Ramanathapuram	3.00	NTC Infra
6	Coimbatore	15.00	Agricultural use to farmers association
7	Pollachi	11.50	Agricultural use to farmers association
8	Chinnamannur	3.00	Agricultural use
9	Karur	7.00	Agricultural use
10	Arakkonam	7.00	MRF Industrial use

